



Unitary Products General Catalog

50 and 60 Hz.





Since The Trane Company has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.

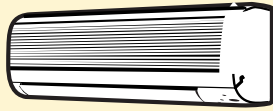
Trane, a worldwide manufacturer of air conditioning, heating, ventilating, refrigeration and building automation systems, is a division of American Standard, which in turn is one of the world's leaders in the supply of plumbing products and other specialties related to the construction industry.

Trane's objectives include reaching out to the farthest corners of the world, in an aim to offer not only large industrial HVAC equipment, but also a wide range of unitary products encompassing large commercial, light commercial and residential equipment to fit every possible application to comply with the individual comfort requirements of each and every customer.

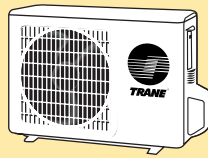
To reach these goals and owing to the growing presence of Trane within the Latin America Region, Trane offers this product portfolio of Unitary equipment which displays the wide variety of possibilities to serve each customer in particular. The personal assistance of each local Trane Office in the LAR region, is supported by a group of engineers which represents the strongest certified sales force in the realm of air conditioning, comprising 360 engineers and technicians trained to serve more than 500 distributors in Latin America and the Caribbean.

The following pages will show what Trane has to offer in terms of quality, at a competitive price. Trane's dedication through ongoing research, development, design, manufacturing and testing, contribute's to keeping Trane as a worldwide leader in the industry, for years to come.

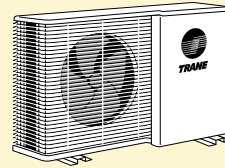
Residential range - 0.6 to 5 T.R - Mini split systems



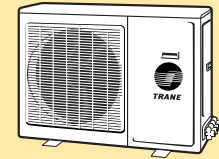
MCW/MWW
P.11



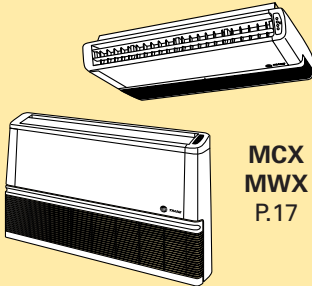
TTK/TWK (CHINA)
P.11



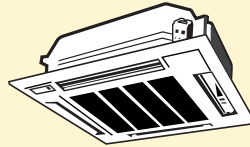
TTK (THAILAND)
P.11



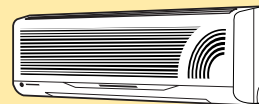
**MULTI CIRCUIT
TTD/TWD**
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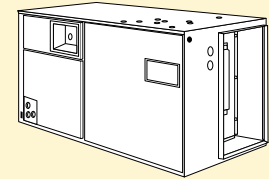
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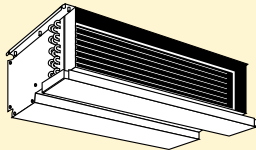
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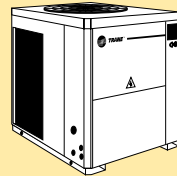
**INVERTER
MWW**
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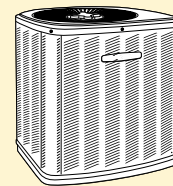
TWE, TWG
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MCD/MWD
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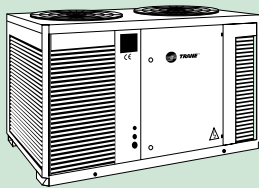
TTA/TWA
P.45



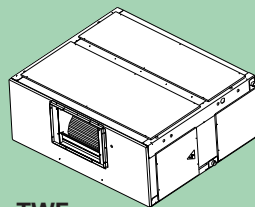
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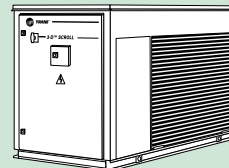
Light commercial range - 1 to 120 T.R. - Split systems



TTA/TWA
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TWE
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RAUC
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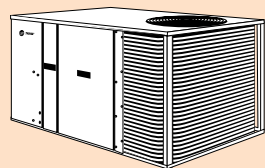


Indoor unit

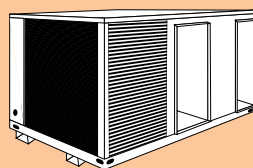


Outdoor unit

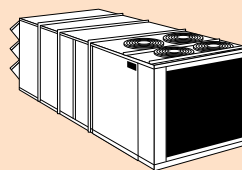
Light commercial range - 1.5 to 50 T.R. - Rooftop



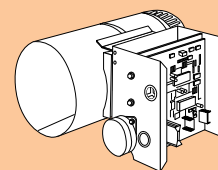
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(IMPACT)**
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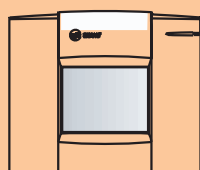
VOYAGER II
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**TCD/TCH - TED/TEH
VOYAGER III**
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VARITRAC
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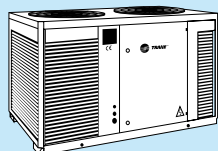


GENIUS
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**WALL MOUNTED
QUARTZ**
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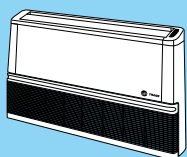
Light commercial range - 10 to 60 T.R. - Water systems : liquid chillers



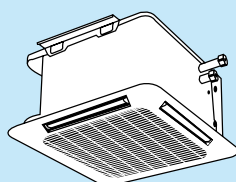
CGA
P.88



Light commercial range - 1 to 5 T.R. - Water systems : blower units



CFEA
P.94



CWCS
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Symbols guide

Use the following symbols in this catalogue to instantly find the system or systems appropriate to your project.

Residential range

 Split systems

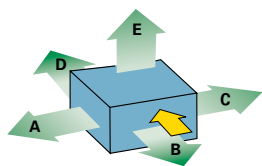
Light commercial range

 Split systems

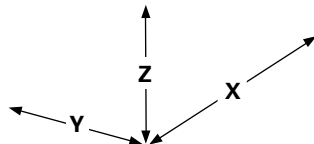
 Rooftop units

 Water systems

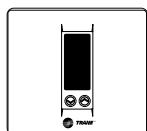
Clearances



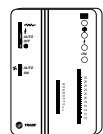
Dimensions



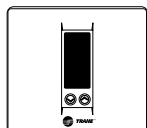
Room thermostats



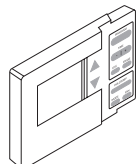
TAYSTAT 371
Non programmable
COOLING ONLY system
with 1 stage electric heating



TAYSTAT 570
Non programmable
REVERSIBLE system
with 1 stage electric heating



BAYSENS 010 VOYAGER
Non programmable
COOLING ONLY or
REVERSIBLE BAYSENS 011
system with electronic control
and 2 stage electric heating



BAYSTAT 037
Programmable
COOLING ONLY system
with 2 stage electric heating

BAYSTAT 038
Programmable
REVERSIBLE system
with 1 stage electric heating

BAYSENS 019 VOYAGER
Programmable
COOLING ONLY or REVERSIBLE
system with electronic control
and 2 stage electric heating

Technical characteristics



Cooling only system



Reversible or heating/cooling system



R407C



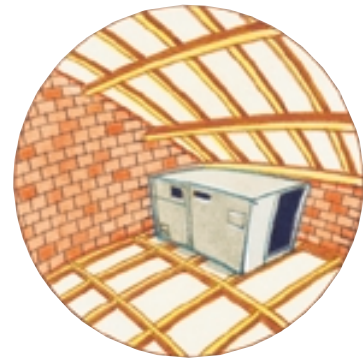
R22



R410a

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RESIDENTIAL SPLIT SYSTEMS FROM 0.6 TO 5 T.R.

Trane offers a complete range of split systems for small and medium-sized surface areas and for one or more rooms of 15 to 200 m².

Trane offers a follow-up to the range making future extensions and configuration modifications possible.

Each client has a complete liberty to choose the solution that suits them on the basis of their needs and their budget.

The split systems are accessible and easy to install and are, for many users, the key to air-conditioning comfort, whether reversible or not.

Individuals and professionals are the first to benefit.

Compact and silent, all of these units can be controlled by remote-control for adapted and personalised comfort



Mini-Split systems Air-cooled units

CONDITIONS:

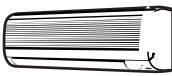
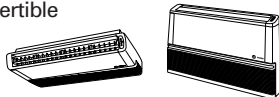
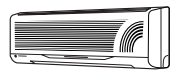
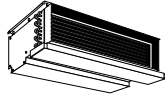
Cooling capacities

- Air inlet temperature = 27°C DB/19°C WB
- Outdoor air temperature = 35°C

Heating capacities

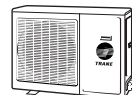
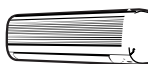
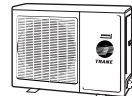
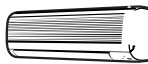
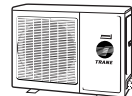
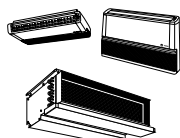
- Air inlet temperature = 20°C DB
- Outdoor air temperature = 7° DB/6°C WB

MONO CIRCUIT

		TTK/TWK			TTK/TWK		TTK			
Outdoor units		507	509	512	518	524				
 Wall-mounted	MCW /MWW R 22 Cooling cap. Heating cap. R 407 C Cooling cap. Heating cap.	✓	✓	✓	✓	✓				
		✓	✓	✓	✓	✓				
		✓	✓	✓	✓	✓				
		✓	✓	✓	✓	✓				
 Convertible	MCX/MWX R 22 Cooling cap. Heating cap.			512	518	524	536	536	048	060
				✓	✓	✓	✓	✓	✓	✓
				✓	✓	✓	✓	✓	✓	✓
 Cassette	MCC /MWC - R 407 C R22 Cooling cap.* Heating cap.*				518	524	542*			
					✓	✓	✓			
					✓	✓	✓			
 Inverter	INVERTER - R 22 Cooling cap. Heating cap.			512						
				✓						
				✓						
 Ductable ceiling installation	MCD/MWD R 22 Cooling cap. Heating cap.			512	518	524	530	536	048	060
				✓	✓	✓	✓	✓	✓	✓
				✓	✓	✓	✓	✓	✓	✓

* Size 542 only for Cassette

MULTI CIRCUIT

Condensing units	indoor units				Cooling	Heating
 TTD/ TWD	 Bi-split	MCW/MWW R 22	TTD/TWD 514 BB	2 x MCW/MWW 507 LB	✓	✓
			TTD/TWD 518 BB	2 x MCW/MWW 509 LB	✓	✓
			TTD/TWD 524 BB	2 x MCW/MWW 512 LB	✓	✓
 TTD/ TWD	 Bi-split	MCW/MWW R 407 C	TTD/TWD 514 CB	2 x MWW 507 PB	✓	✓
			TTD/TWD 518 CB	2 x MWW 509 PB	✓	✓
			TTD/TWD 524 CB	2 x MWW 512 PB	✓	✓
 TTD/ TTT	 MCX MCD	R22	2:1 Combinations		✓	
			3:1 Combinations		✓	

 **MCW + TTK**
 **MWW + TWK**
  **0.6 - 2.2 T.R.**

Widely used today, wall-mounted units are very easy to install and operate.

An increasing level of silence.

An answer to the largest number of customer expectations.

A pleasing appearance of outdoor units in order to facilitate the integration into buildings.

A provider of cleaner air due to its 3 filters system.

The indoor unit is supplied with a remote control allowing instantaneous temperature control.

These small units are without a doubt the most pleasing to the eye on the market and a source of purer air.

FOR WHOM? FOR WHAT?

Designed for room by room air-conditioning.

Recommend for individuals, freelancers and small businesses looking for a low-cost, a simple solution.

For cooling only or reversible air-conditioning.

TRANE'S ADVICE

The success of this product is because of its ease of installation.

This product is perfect for single rooms with a surface area of less than 50 m².

Where equipment is needed for several rooms at once, it would be preferable to move towards multisplits.



**MCW/MWW
507 - 509 - 512**



MCW/MWW 518 - 524



MCW/MWW 526



TTK/TWK 507 - 509 - 512



TTK/TWK 518 - 526

RESIDENTIAL RANGE

Main features :

MCW/MWW indoor units

- Innovative Segmented Coil Evaporator.
- 3 Speed Tangential Fan Motor.
- Washable anti-mold filter.
- Multi level Air Cleaning.
- Electrostatic fiber filter.
- LTC filter.
- Soft Material louvers.

TTK/TWK outdoor units

- Refrigerant Charge.
- Blue Wave hydrophilic fin Condenser.
- Silver-Grey Powder paint finish.
- Axial Fan.
- Hermetic Rotary Compressor.
- Integrated Condensate Tray.
- Condenser Coil and Fan Protection Grille.

Control :

Microprocessor and 230 V control with :

- Automatic Control of the ambient Temperature.
- Anti frost Protection of the evaporator coil.
- Compressor anti-recycle timer.
- Compressor discharge Temperature protection.
- De-frosting by reverse cycle.

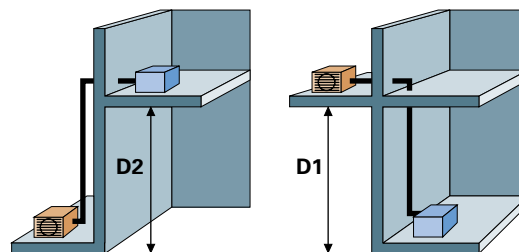
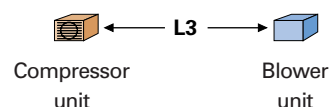
Infrared remote control with :

- Liquid crystal display.
- Selection of 3 fan speeds and automatic ventilation.
- Selection of heating, cooling, heating/cooling or ventilation only.
- Automatic sweeping of supply air.
- Sleep mode.
- Delayed start/stop.
- 24 H Timer.
- Dehumidification function.

NEW! R 407c available for 50 Hz Systems.
Contact your Trane representative for details.

Cooling line connections

Maximum line lengths



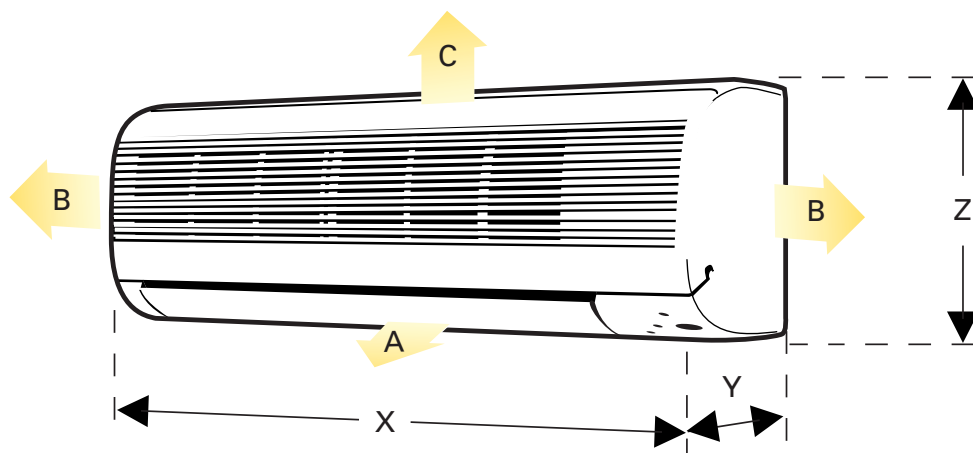
	Outdoor unit	Max. Length (m)	Max. level difference (m)		Line diameters (inches)	
		L3	D2	D1	Gas	Liquid
 R22	TTK 507 - 509 X	10	5	5	3/8	1/4
	TTK 512 X	10	5	5	1/2	1/4
	TTK 518 - 524 X	10	5	5	1/2	1/4
	TTK 526 X	10	5	5	5/8	3/8
 R22	TWK 507 - 509 X	10	5	5	3/8	1/4
	TWK 512 X	10	5	5	1/2	1/4
	TWK 518 - 524 X	10	5	5	1/2	1/4
	TWK 526 X	10	5	5	5/8	3/8

Operating limits :

	Cooling mode	Heating mode
Min. outdoor air temperature	+ 16°C	- 7°C
Max. outdoor air temperature	+ 43°C	+ 30°C

Dimensions (mm) and weight (kg)

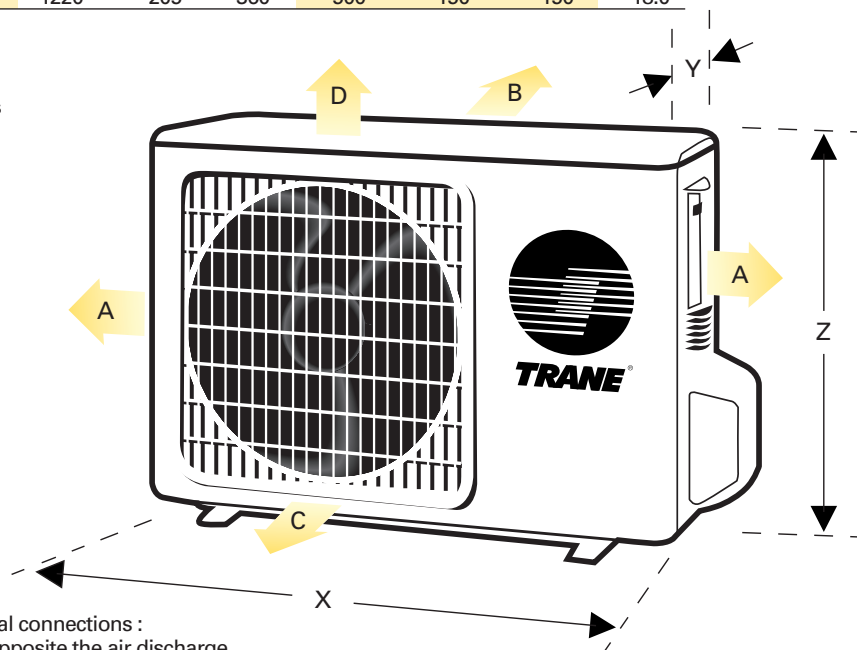
MCW/MWW indoor units



- Cooling line connections : to the left of the unit, opposite the air discharge. Possibly to the right, or at the back.
- Electrical connections : to the right of the unit, opposite the air discharge.

MCW/MWW	Dimensions (mm)			Clearance (mm)			Net weight (kg)
	X	Y	Z	A	B	C	
507 - 509 - 512 K	770	180	250	500	70	40	8.5
518 - 524 K	907	195	290	500	150	150	12.0
526 K	1220	205	360	500	150	150	18.0

TTK/TWK outdoor units



Cooling line and electrical connections :
to the right of the unit, opposite the air discharge.

TTK/TWK	Dimensions (mm)			Clearance (mm)				Net weight (kg)	
	X	Y	Z	A	B	C	D	TTK	TWK
507 - 509 - 512 X/A	850	320	540	500	300	200	500	32/32/40	32/32/40
518 - 524 X/A	950	410	700	500	300	200	500	40/59	59/59
526 X	950	412	840	500	300	200	500	75	75

RESIDENTIAL RANGE



Cooling only split system



Specifications: 50 & 60 Hz - Cooling Only

Model	Indoor Model	MCW507KB	MCW509KB	MCW509K1	MCW512KB	MCW512K1	MCW518KB	MCW518K1	MCW524KB	MCW524K1	MCW526KB	MCW526K1
Electrical Data	Outdoor Model	TTK507XB	TTK509XB	TTK509X1	TTK512XB	TTK512X1	TTK518XB	TTK518X1	TTK524XB	TTK524X1	TTK526XB	TTK526X1
Power Supply	V/Ph/Hz	220-230/1/50	220-230/1/50	220/160	220-230/1/50	220/160	220-230/1/50	220/160	220-230/1/50	220/160	220-230/1/50	220/160
Nominal Capacity	Btu/h	7,000	8,600	8,600	11,000	11,000	17,000	17,000	21,000	21,000	24,000	24,000
W	W	2,500	2,500	2,500	3,200	3,200	5,000	5,000	6,000	6,000	7,000	7,000
Air Flow	CMH	400	450	380	450	450	700	700	720	720	1,080	1,080
EER/COP	W/W	2.83	2.5	2.9	2.5	2.65	2.55	2.55	2.3	2.3	2.55	2.75
Indoor Units												
Fan Motor	Speed L/M/H	850/900/960	910/990/1,060	900/960/1,050	990/1,090/1,190	1,000/1,100/1,200	1,100/1,200/1,350	1,100/1,200/1,350	1,100/1,200/1,400	1,100/1,200/1,400	1,100/1,310/1,410	1,200/1,300/1,400
Fan	Type-Number	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1
Sound Data	dBA	32/36	32/36	32/36	34/40	34/40	37/46	37/46	40/48	40/48	42/51	42/51
Outdoor Units												
Power Input	W	700	760	908	1,160	1,210	1,940	1,940	2,580	2,580	2,720	3,170
Current	A	3.2	3.66	4.18	5.4	5.48	8.71	8.71	11	12.5	13	15
Expansion Device		Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary
Compressor		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Recip	Recip
Fan Motor	RPM	750	730	730	800	780	780	780	815	815	780	780
Fan	Type-Number	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1
Sound Data	dBA	51	52	52	56	52	58	58	59	59	58	58
Refrigerant Charge	R22	0.65	0.85	0.8	0.8	0.85	1.9	1.9	1.6	1.6	2.5	2.5



Reversible split system

Specifications: 50 & 60 Hz - Heat Pump

Model	Indoor Model	MWW507KB	MWW509KB	MWW509K1	MWW512KB	MWW512K1	MWW518KB	MWW518K1	MWW524KB	MWW524K1	MWW526KB	MWW526K1
Electrical Data	Outdoor Model	TTK507XB	TTK509XB	TTK509X1	TTK512XB	TTK512X1	TTK518XB	TTK518K1	TTK524XB	TTK524X1	TTK526XB	TTK526X1
Power Supply	V/Ph/Hz	220-230/1/50	220-230/1/50	220/160	220-230/1/50	220/160	220-230/1/50	220/160	220-230/1/50	220/160	220-230/1/50	220/160
Nominal Capacity	Cooling (W)	2,000	2,500	2,600	3,200	3,200	5,000	5,000	6,000	6,000	7,000	7,000
Heating (W)	Heating (W)	2,400	3,100	3,100	3,800	3,800	6,000	6,000	7,000	7,000	7,500	7,000
Air Flow	CMH	400	450	380	480	450	700	700	720	720	1,080	1,080
EER/COP	Cooling (W/W)	2.82	2.67	2.75	2.6	2.75	2.55	2.55	2.3	2.3	2.55	2.7
	Heating (W/W)	2.97	2.95	2.9	2.56	3	2.77	2.787	2.61	2.72	2.83	2.8
Indoor Units												
Fan Motor	Speed L/M/H	850/900/960	910/990/1,060	900/960/1,050	990/1,090/1,190	1,000/1,100/1,200	1,100/1,200/1,350	1,100/1,200/1,350	1,100/1,200/1,400	1,100/1,200/1,400	1,100/1,310/1,410	1,200/1,300/1,400
Fan	Type-Number	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1	Tangential-1
Sound Data	dBA	32/36	32/36	32/36	34/40	34/40	37/46	37/46	40/48	40/48	42/51	42/51
Outdoor Units												
Power Input	W	740	919	818/846	1,269	1,150/1,230	2,140	1,940/2,140	2,660	2,580/2,570	2,720	3,170/3,070
Current	A	3.3	4.26	3.8/3.9	5.9	5.3/5.6	9.71	8.71/9.71	11.7	12.5/12.3	13	15/14.8
Expansion Device		Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary
Compressor		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Recip	Recip
Fan Motor	RPM	750	800	800	880	880	780	780	815	815	780	780
Fan	Type-Number	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1	Axial-1
Sound Data	dBA	51	52	52	56	54	58	58	59	59	58	58
Refrigerant Charge	R22	0.75	0.8	0.82	1.0	0.85	1.9	1.9	2.0	1.6	2.5	2.5

INVERTER

R22 0.9 - 3.7 kW
50 Hz Only



Energy savings and flexibility of temperature are two of the main advantages that carry the Inverter system.

To maintain a certain temperature level, the Inverter adjusts compressor speed avoiding the successive starts and stops that take place in conventional systems. This will provide you with high energy savings and a constant quality of temperature. Its hi-tech performance will provide you with better heating performances at lower outside temperatures thus giving you better comfort for all seasons.

Electrical connections

1 - Control interconnection

Outdoor unit	Nb wires x sect. area (mm ²)	Indoor unit
TWK 512 VB	3 x 1.5 + 5 x 0.75	MWW 512 VB

2 - Power supply*

Outdoor unit	Nb wires x sect. area (mm ²)	Indoor unit	Nb wires x sect. area (mm ²)
TWK 512 VB	3 x 1.5 ²	MWW 512 VB	3 x 1.5

*Indoor and outdoor units powered separately.



MWW 512 VB

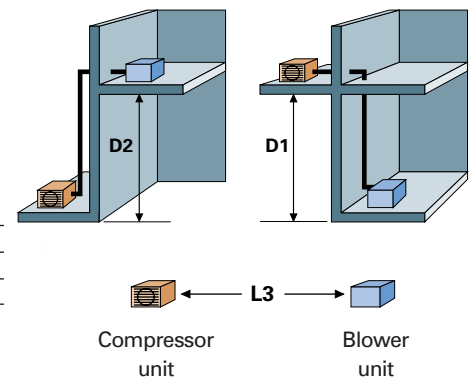


TWK 512 VB

Cooling line connections

Maximum line lengths

	Outdoor unit	Max. Length (m)	Max. level difference (m)		Line diameters (inches)	
		L3	D2	D1	Gas	Liquid
R22	TWK 512 VB	10	5	5	1/2	1/4



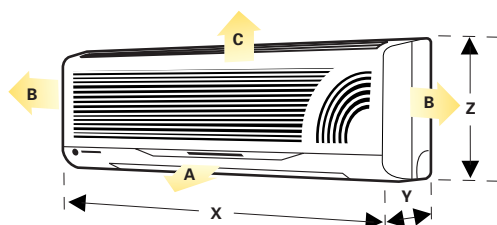
Operating limits :

	Cooling mode	Heating mode
Min. outdoor air temperature	+ 16°C	- 7°C
Max. outdoor air temperature	+ 43°C	+ 30°C

RESIDENTIAL RANGE

Dimensions (mm) and weight (kg)

MWW 512 indoor units

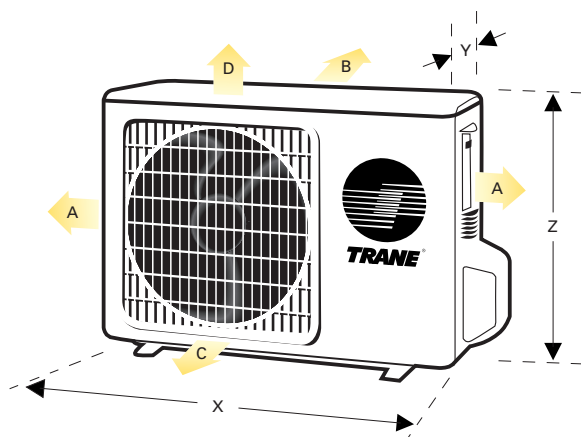


	Dimensions (mm)			Clearance (mm)			Net weight (kg)
MWW	X	Y	Z	A	B	C	
512 VB	830	189	285	500	70	40	11

- Cooling line connections : to the left of the unit, opposite the air discharge.
Possibly to the right, or at the back.

- Electrical connections : to the right of the unit, opposite the air discharge.

TWK outdoor units



	Dimensions (mm)			Clearance (mm)			Net weight (kg)	
TWK	X	Y	Z	A	B	C	D	
512 VR	850	320	540	600	600	600	600	41

Cooling line and electrical connections :
to the right of the unit, opposite the air discharge.



Reversible system

Indoor unit			MWW 512 VB
Outdoor unit			TWK 512 VB
Refrigerant	Type		R 22
Power supply	(V/Ph/Hz)		230/1/50
Cooling capacity (1)	(kW)		3.2 (0.9 to 3.7)
Cooling mode power input (1)	(kW)		1.23
Heating capacity (2)	(kW)		4.2 (1.1 to 4.5)
Heating mode power input (2)	(kW)		1.62
Coefficient of performance (2)			2.6
Total current	(A)		6.35
Outdoor unit start-up amps	(A)		29
Air flow	indoor units (3)	(m³/h)	510
Cooling mode expansion system	(Unit/Type)		Capillary
Sound power	indoor unit (3)	(dB(A))	≤ 48
	outdoor unit	(dB(A))	≤ 60
Sound pressure level	indoor unit (3) (4)	(dB(A))	≤ 40
	outdoor unit (5)	(dB(A))	≤ 40

(1) Cooling mode : air inlet temp. : 27°C DB / 19°C WB ; outdoor temperature : 35°C.

(2) Heating mode : air inlet temp. 20°C ; outdoor temperature : 7°C DB / 6°C WB.

(3) Maximum Air flow.

(4) Measurements taken in a furnished room appropriate to the unit's capacity.

(5) Sound pressure level 4 m from the unit in a free field.

 **MCX**
 **MWX**
 **1 - 5 T.R.**



The Trane console/ceiling minisplits offer the choice of either a console or ceiling installation without the use of any supplementary accessories.

The quest for aesthetic value for good integration into the surrounding decor was considered.

An infrared remote control allows simplified control from a distance.



MCX/MWX

FOR WHOM? FOR WHAT?

To equip commercial boutiques or restaurants and public places needing a comfortable temperature and good quality of air.

Offered in cooling only or reversible.

TRANE'S ADVICE

An ideal configuration where no false ceilings are available.

RESIDENTIAL RANGE

Main features :

Convertible Model — Stylus™ MCX/MWX

12,000 - 36,000 Btuh (50/60 Hz)

Features:

- Convertible Installation — Floor, Ceiling or Low Wall
- 3-speed centrifugal fan motor.
- Aluminium fin heat exchanger with copper tubes.
- Washable air filters.
- Multi-direction air deflectors.
- Optional Electric Heat Available

NEW SIZES: 42,000 - 60,000 Btuh (50/60 Hz)

Features:

- Convertible Installation — Ceiling or Low Wall
- Convenient Factory Wired Control
- Optional Wireless Remote Control
- Three-Speed Fan
- Ideal for the light Commercial Application
- Optional Electric Heat Available

Control :

Microprocessor

- Automatic control of the room temperature.
- Anti-frost protection of the evaporator coil.
- De-frosting by cycle reversal (heating mode).
- Operation is possible without remote control.

Infrared remote control with :

- Liquid crystal display.
- Selection of heating, cooling, heating/cooling and fan only.
- Selection of 3 fan speeds or automatic ventilation.
- Delayed start/stop.

New MWX, Match it with TWJ / 2TWB / TWA / 2TWA

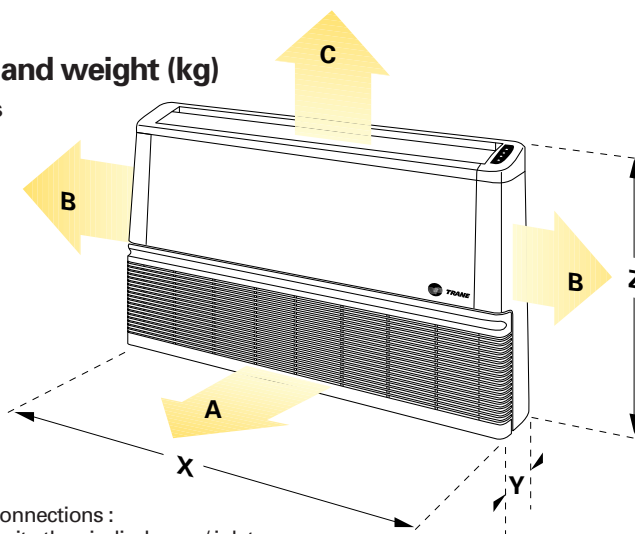
220-240/1/50 or 200-240/1/60

Models		Air Flow		Nominal Capacity		Heating		Electric Heat
Cooling	Heat Pump	cmh	cfm	kW	MBh	kW	MBh	kW
MCX512E	MWX512E	510	300	3.5	12	4.1	14	2
MCX518E	MWX518E	765	450	5.3	18	4.7	16	2.5
MCX524E	MWX524E	1020	600	7.0	24	6.2	21	3.5
MCX530E	MWX530E	1275	750	8.8	30	8.8	30	5
MCX536E	MWX536E	1530	900	10.5	36	9.4	32	5
MCX042E	MWX042E	1785	1050	12.3	42	11.4	39	5
MCX048E	MWX048E	2040	1200	14.1	48	11.7	40	6
MCX060E	MWX060E	2550	1500	17.5	60	15.5	53	7

* Rated at 27/19° C DB/WB and 35° C ODB

+ Rated at 20° C DB and 6° C ODB

Dimensions (mm) and weight (kg) MCX/MWX indoor units



Cooling line and electrical connections :
to the right of the unit, opposite the air discharge / inlet.

Models		Dimensions (mm)			Clearance (mm)			Net weight (kg)
Cooling	Reversible	X	Y	Z	A	B	C	
MCX512E	MWX512E	1085	243	627	500	300	500	33
MCX518E	MWX518E	1085	243	627	500	300	500	36
MCX524E	MWX524E	1335	268	627	500	300	500	41
MCX530E	MWX530E	1585	268	627	500	300	500	50
MCX536E	MWX536E	1585	268	627	500	300	500	57
MCX042E	MWX542E	1835	268	627	500	300	500	72
MCX048E	MWX548E	1835	268	627	500	300	500	75
MCX060E	MWX560E	2085	268	627	500	300	500	84

Only one indoor unit in order to equip several zones using a network of ducts.

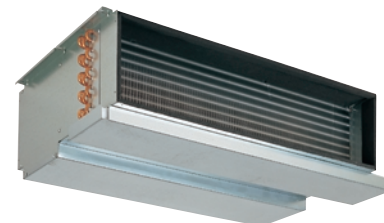
A unit that can be installed in all false ceilings thanks to its small dimensions and light weight.

Temperature precision for each zone.

A simple wall-mounted room thermostat allows the temperature to be set.

Very low level of noise.

Responds to aesthetic demands : the diffusers make the installation almost invisible.



MCD/MWD

FOR WHOM? FOR WHAT?

For offices, hotels, public buildings, businesses and residential applications.

For rooms varying between 20 m² and 160 m² in size.

TRANE'S ADVICE

This configuration is ideal for small and medium-sized surface areas equipped with false ceilings. An economical solution with discrete and quiet equipment.

However, this is an installation that must be included in planning at the time of construction.

Main features :

MCD/MWD—Concealed DX Air Handler — Illusion™

Standard Fan Coil:

12,000 - 36,000 Btuh (50/60 Hz)

With Plenum and Filter Rack:

12,000 - 60,000 Btuh (50/60 Hz)

Features:

- Compact Design — ONLY 10.0 inches in height (uncased)!
- Triple Layer Drain Pan
- Four Speed Fan Motor
- Full Capacity
- Optional Wireless Remote Control
- Thermostat for cooling only models
- Optional Electric Heat
- Models Available with Plenum and Filter Rack
- Heat Pump Models come with wired or wireless remote control.

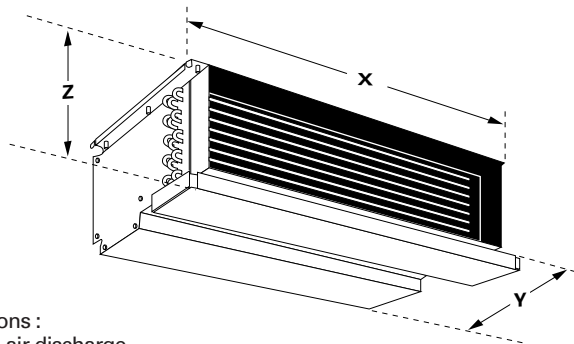
Control : (Heat Pump)

Microprocessor and 230V control with:

- Automatic control of the room temperature.
- Anti-freeze protection of the evaporator coil.
- De-frosting by cycle reversal (heating mode).

Dimensions (mm) and weight (kg)

MCD/MWD indoor units



Cooling line and electrical connections :
to the right of the unit, opposite the air discharge.

Model	Dimensions (mm)			Net weight (kg)
	X	Y	Z	
MCD/MWD512	946	500	254	22.3
MCD/MWD518	946	500	254	24
MCD/MWD524	946	535	254	25.9
MCD/MWD530	1098	535	254	29.5
MCD/MWD536	1251	535	254	32.7
MCD/MWD512	946	625	300	30.91
MCD/MWD518	946	625	300	32.7
MCD/MWD524	946	625	300	34.5
MCD/MWD530	1098	625	300	39.5
MCD/MWD536	1251	625	300	44
MCD/MWD048	1107	759	408	53
MCD/MWD060	1250	759	408	60

Specifications 50 Hz

Nominal Cooling Capacity	BTUH	12,000	18,000	24,000	30,000	36,000	36,000	42,000	48,000	60,000
Airflow	CFM	300	450	600	750	900	900	1,400	1,600	2,000
Indoor Unit Model		MCD512DB	MCD518DB	MCD524DB	MCD530DB	MCD536DB	MCD536DB	MCD048DB	MCD048DB	MCD060DB
Power Supply (V/Ph/Hz)		200-240/1/50	200-240/1/50	200-240/1/50	200-240/1/50	200-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Running Amps.(A)		0.4	0.5	0.9	1.1	1.2	1.2	2.6	2.75	3.45

Specifications 60 Hz

Nominal Cooling Capacity	BTUH	12,000	18,000	24,000	30,000	36,000	36,000	42,000	48,000	60,000
Airflow	CFM	300	450	600	750	900	900	1,400	1,600	2,000
Indoor Unit Model		MCD512D1	MCD518D1	MCD524D1	MCD530D1	MCD536D1	MCD536D1	MCD048D1	MCD048D1	MCD060D1
Power Supply (V/Ph/Hz)		200-240/1/60	200-240/1/60	200-240/1/60	200-240/1/60	200-240/1/60	380-415/3/60	380-460/3/60	380-460/3/60	380-460/3/60
Running Amps.(A)		0.4	0.6	1.0	1.3	1.5	1.5	1.7	1.9	2.4



MCC + TTK



MWC + TWK



1.5 - 3.5 T.R. 50 Hz Only



The ceiling air-conditioning unit can be integrated harmoniously into all types of false ceilings owing to the fact that the indoor units only show their air intake and discharge grille.

Maintenance is made simpler thanks to easy access from below.

The remote control supplied can be used either in infrared or cable version.



CAS

FOR WHOM? FOR WHAT?

This equipment has essentially been designed for office premises.

For one area only up to approximately 140 m².

TRANE'S ADVICE

This is the most aesthetically pleasing and simple solution for equipping only one room. One condition is imposed : a false ceiling must be available.



TTK/TWK 518 - 524

RESIDENTIAL RANGE

Main features :

MCC/MWC indoor units

- 3 speed centrifugal fan motor.
- Permanent Washable filter (big black filter on the grille).
- Air Cleaner.
- Ultra thin plenum grille.
- Centrifugal Condensate pump.

TTK/TWK outdoor units

- Refrigerant Charge.
- Axial Fan Motor.
- Rotary hermetic compressors.
- Integrated Condensate Tray.
- Condenser Coil and fan protection Grille.

Control :

Microprocessor and 230 V control with :

- Automatic Control of the ambient Temperature.
- Anti frost Protection of the evaporator coil.
- Compressor anti-recycle timer.
- Compressor discharge Temperature protection.
- De-frosting by reverse cycle.

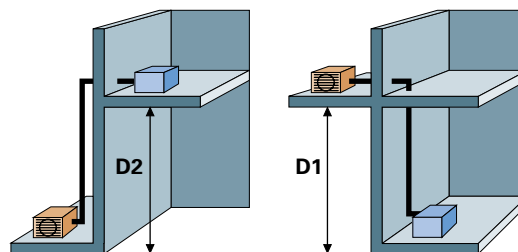
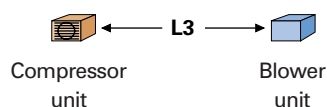
Infrared remote control with :

- Liquid crystal display.
- Selection of 3 fan speeds and automatic ventilation.
- Selection of heating, cooling, heating/cooling or ventilation only.
- Automatic sweeping of supply air.
- Sleep mode.
- Delayed start/stop.
- 24 H Timer.
- Dehumidification function.

NEW! R 407c available for 50 Hz Systems.
Contact your Trane representative for details.

Cooling line connections

Maximum line lengths



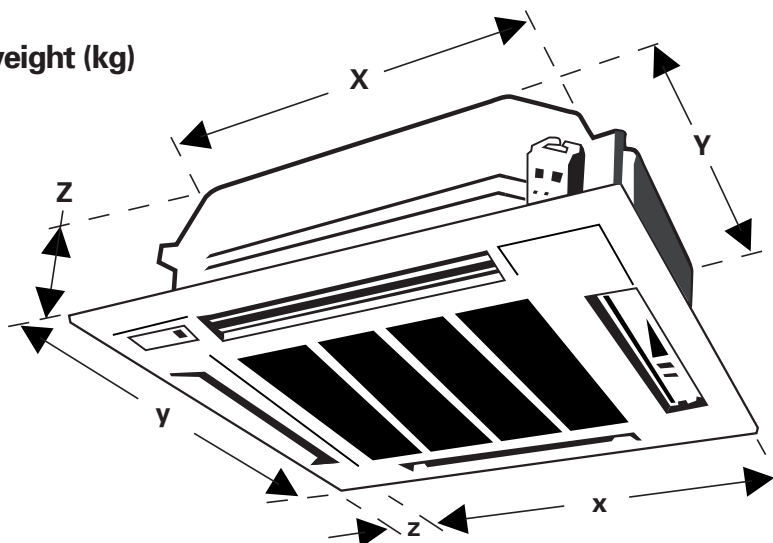
		Outdoor unit	Max. Length (m)	Max. level difference (m)		Line diameters (inches)	
			L3	D2	D1	Gas	Liquid
		TTK 518 BB	10	5	5	3/8	5/8
		TTK 524 BB	10	5	5	3/8	5/8
		TTK 542 BB	10	5	5	1/2	3/4
		TWK 518 BB	10	5	5	3/8	5/8
		TWK 524 BB	10	5	5	3/8	5/8
		TWK 542 BB	10	5	5	1/2	3/4

Operating limits :

	Cooling mode	Heating mode
Min. outdoor air temperature	+ 16°C	- 7°C
Max. outdoor air temperature	+ 43°C	+ 30°C

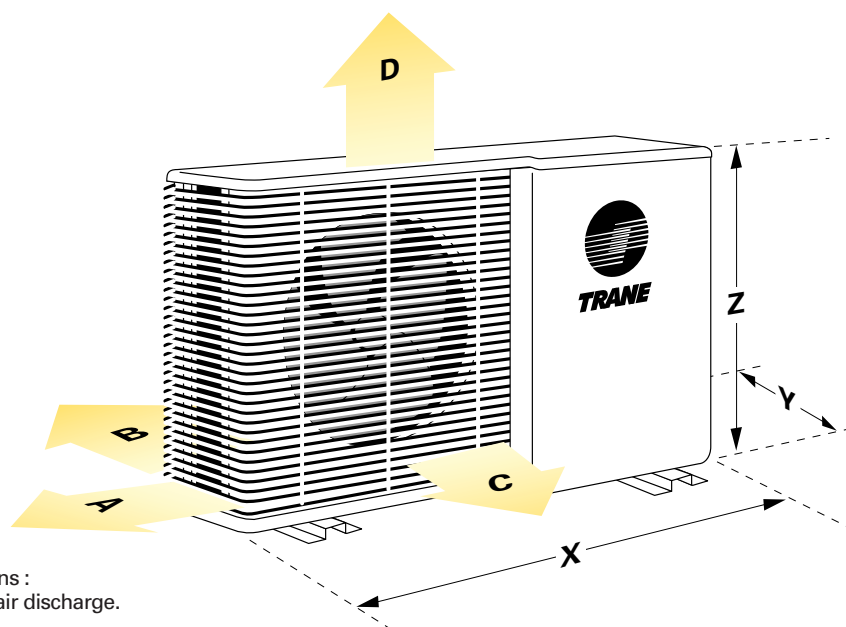
Dimensions (mm) and weight (kg)

CAS indoor units



	Unit Dimensions (mm)			Grille dimensions (mm)			Net weight (kg)
	X	Y	Z	x	y	z	
MCC/MWC							
518 CB	840	840	190	950	950	60	25 + 6.5
524 CB	840	840	240	950	950	60	30 + 6.5
542 CB	840	840	320	950	950	60	38 + 6.5

TTK/TWK outdoor units



Cooling line and electrical connections :
to the right of the unit, opposite the air discharge.

	Dimensions (mm)			Clearance (mm)				Net weight (kg)	
	X	Y	Z	A	B	C	D	TTK-BB	TWK-BB
TTK/TWK									
518 BB	950	412	700	500	200	1000	1000	65	65
524 BB	950	412	840	500	200	1000	1000	75	75
542 BB	840	412	1120	500	200	1000	1000	112	112

RESIDENTIAL RANGE



Cooling only split system

Indoor unit		MCC	518 CB	524 CB	542 CB
Outdoor unit		TTK	518 BB	524 BB	542 BB
Power supply	indoor unit	(V/Ph/Hz)	230/1/50	230/1/50	230/1/50
	outdoor unit	(V/Ph/Hz)	230/1/50	230/1/50	400 / 3 + N / 50
Cooling capacity (1)		(kW)	5.0	7.0	12.0
Cooling mode power input (1)		(kW)	1.92	2.65	4.65
Total current		(A)	9.3	4.8	4.6
Air flow		(m³/h)	680	1180	1860
Cooling mode expansion system		(Unit/Type)	Capillary in TTK	Capillary in TTK	Capillary in TTK
Sound power	indoor unit (3)	(dB(A))	≤ 54	≤ 55	≤ 61
	outdoor unit	(dB(A))	≤ 66	≤ 68	≤ 71
Sound pressure level	indoor unit (3) (4)	(dB(A))	≤ 46	≤ 47	≤ 53
	outdoor unit (5)	(dB(A))	≤ 46	≤ 48	≤ 51



Reversible split system

Indoor unit		MWC	518 CB	524 CB	542 CB
Single // three-phase outdoor unit		TWK	518 BB	524 BB	542 BB
Power supply	indoor unit	(V/Ph/Hz)	230/1/50	230/1/50	230/1/50
	outdoor unit	(V/Ph/Hz)	230/1/50	230/1/50	400 / 3 + N / 50
Cooling capacity (1)		(kW)	5.0	7.0	12.0
Cooling mode power input (1)		(kW)	1.92	2.65	4.65
Heating capacity (2)		(kW)	5.4	7.5	12.5
Heating mode power input (2)		(kW)	1.92	2.52	4.3
Coefficient of performance (2)			2.8	3.0	2.9
Total current		(A)	9.3 / 9.3	4.8 / 4.8	8.0 / 7.5
Air flow		(m³/h)	680	1180	1860
Cooling mode expansion system		(Unit/Type)	Capillary in TTK	Capillary in TTK	Capillary in TTK
Sound power	indoor unit (3)	(dB(A))	≤ 54	≤ 55	≤ 61
	outdoor unit	(dB(A))	≤ 66	≤ 68	≤ 71
Sound pressure level	indoor unit (3) (4)	(dB(A))	≤ 46	≤ 47	≤ 53
	outdoor unit (5)	(dB(A))	≤ 46	≤ 48	≤ 51

(1) Cooling mode : air inlet temp. : 27°C DB / 19°C WB ; outdoor temperature : 35°C.

(2) Heating mode : air inlet temp. 20°C ; outdoor temperature : 7°C DB / 6°C WB.

(3) Maximum Air flow.

(4) Measurements taken in a furnished room appropriate to the unit's capacity.

(5) Sound pressure level 4 m from the unit in a free field.

 **MCW + TTD, TTQ**
 **MWW + TWD**
  **1.5 - 2 T.R.**



The best minisplits configuration for equipping several small rooms.

The indoor units are compact, silent and aesthetically pleasing.

Possibility of adjusting the temperature room by room using command electronics that are adapted for the comfort of each user.

Small size, rapid installation.

A particularly economical solution in comparison to classic systems.



MCW/MWW
509 - 512 L/P

FOR WHOM? FOR WHAT?

A good solution for individuals or professionals wishing to equip 2 rooms for similar purposes.

For cooling only or reversible air-conditioning configured for 2 rooms.



TTD/TWD

TRANE'S ADVICE

Need for temperature coherence between the different rooms. No more than 5°C gap.

NEW! for 60Hz 4:1 combination TTQ 530 with 4 MCW 507L

RESIDENTIAL RANGE

Main features :

MCW/MWW indoor units

- 3 speed tangential fan motor.
- Aluminium fin heat exchanger with copper tubes.
- Washable air filters.
- Wall mounting.

Bisplit TTD/TWD outdoor units

- R 22 and R 407C Refrigerant Charge. (50Hz only)
- Axial Fan Motor.
- 2 Separate circuits with rotary hermetic compressors.
- Aluminium fin Coil with copper tubes.
- Integrated Condensate Tray.
- Condenser Coil and fan protection Grille.

Control :

Microprocessor and 230 V control with:

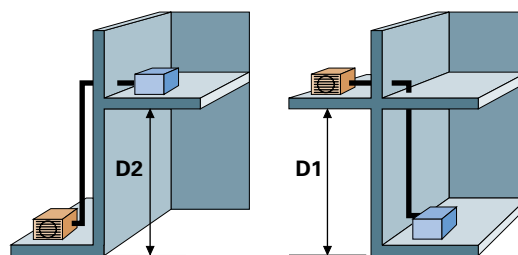
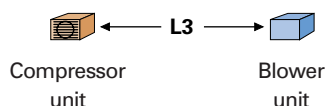
- Automatic control of the room temperature.
- Anti-frost protection of the evaporator coil.
- Compressor anti-recycle timer.
- Compressor discharge temperature protection.
- De-frosting by cycle reversal (heating mode).
- Operation is possible without remote control.

Infrared remote control with :

- Liquid crystal display.
- Selection of heating, cooling, heating/cooling and fan only.
- Selection of 3 fan speeds or automatic ventilation.
- Automatic sweeping of indoor air.
- Economy mode.
- Delayed start/stop.
- Recovery power failure.
- Dehumidification function.

Cooling line connections

Maximum line lengths



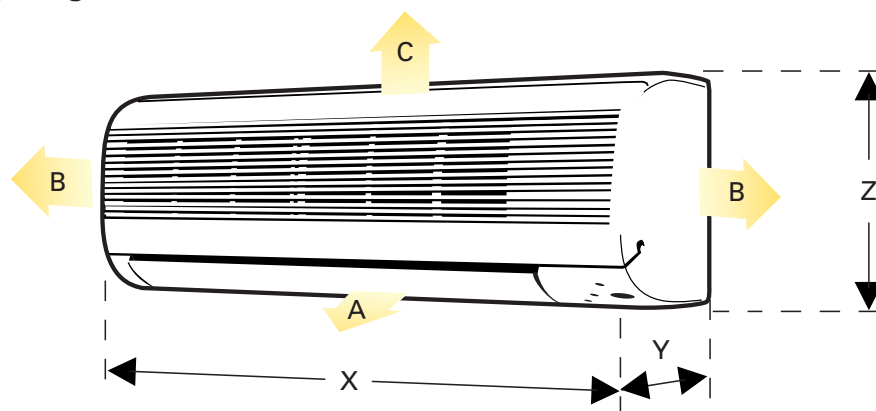
		Outdoor unit	Max. Length (m)	Max. level difference (m)		Line diameters (inches)	
			L3	D2	D1	Gas	Liquid
		TTD 514 B	10	5	5	3/8	1/4
		TTD 518 B	10	5	5	1/2	1/4
		TTD 524 B	10	5	5	1/2	1/4
		TWD 514 B	10	5	5	3/8	1/4
		TWD 518 B	10	5	5	1/2	1/4
		TWD 524 B	10	5	5	1/2	1/4
		TTD 514 CB (50Hz)	10	5	5	3/8	1/4
		TTD 518 CB (50Hz)	10	5	5	1/2	1/4
		TTD 524 CB (50Hz)	10	5	5	1/2	1/4
		TWD 514 CB (50Hz)	10	5	5	3/8	1/4
		TWD 518 CB (50Hz)	10	5	5	1/2	1/4
		TWD 524 CB (50Hz)	10	5	5	1/2	1/4

Operating limits :

	Cooling mode	Heating mode
Min. outdoor air temperature	+ 16°C	- 7°C
Max. outdoor air temperature	+ 43°C	+ 30°C

Dimensions (mm) and weight (kg)

MCW/MWW indoor units

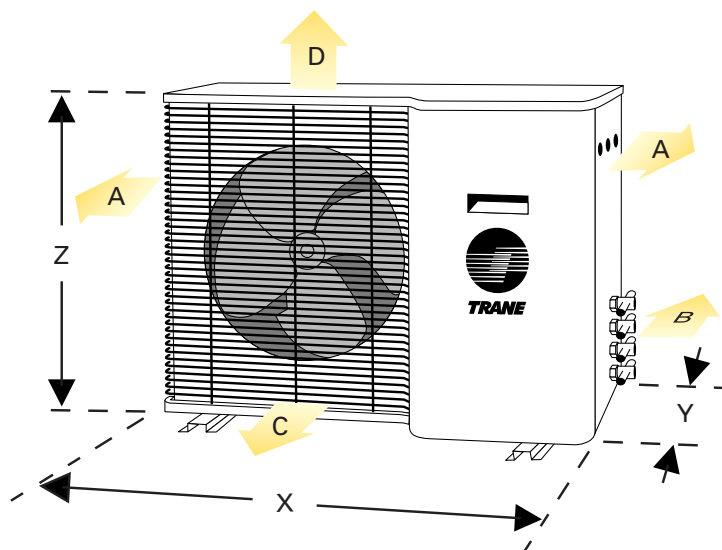


- Cooling line connections : to the left of the unit, opposite the air discharge. Possibly to the right, or at the back.
- Electrical connections : to the right of the unit, opposite the air discharge.

MCW/MWW	Dimensions (mm)			Clearance (mm)			Net weight (kg)
	X	Y	Z	A	B	C	
507 - 509 - 512 L/PB	770	180	250	500	70	40	8.5

TTD/TWD outdoor units

TTQ



Cooling line and electrical connections :
to the right of the unit, opposite the air discharge.

TTD/TWD	Dimensions (mm)			Clearance (mm)			
	X	Y	Z	A	B	C	D
514 - 518 - 528 BB	950	410	700	600	600	600	600
518 B1	✓	✓	✓	✓	✓	✓	✓
TTQ 530 B1	950	410	840	600	600	600	600

RESIDENTIAL RANGE



Cooling only bi-split system

Indoor units			2 x MCW 507 LB	2 x MCW 507 PB	2 x MCW 509 LB	2 x MCW 509 PB	2 x MCW 512 LB	2 x MCW 512 PB
Outdoor unit			TTD 514 BB	TTD 514 CB	TTD 518 BB	TTD 518 CB	TTD 524 BB	TTD 524 CB
Refrigerant	Type		R 22	R 407 C	R 22	R 407 C	R 22	R 407 C
Cooling capacity (1)	(kW)		2 x 2.0	2 x 2.0	2 x 2.5	2 x 2.5	2 x 3.2	2 x 3.2
Cooling mode power input (1)	(kW)		2 x 0.71	2 x 0.8	2 x 1.0	2 x 1.0	2 x 1.3	2 x 1.3
Total current	(A)		2 x 3.27	2 x 3.8	2 x 4.8	2 x 4.8	2 x 6.4	2 x 6.4
Air flow	indoor units (3)	(m³/h)	400	400	450	450	480	480
Expansion system (3)	(Unit/Type)		Capillary in TTD					
Sound power	indoor unit (3) (4)	(dB(A))	≤ 44	≤ 44	≤ 44	≤ 44	≤ 48	≤ 48
	outdoor unit	(dB(A))	-	-	-	-	-	-
Sound pressure level	indoor unit (3) (4)	(dB(A))	≤ 36	≤ 36	≤ 36	≤ 36	≤ 40	≤ 40
	outdoor unit (5)	(dB(A))	-	-	-	-	-	-



Reversible bi-split system

Indoor units			2 x MWW 507 LB	2 x MWW 507 PB	2 x MWW 509 LB	2 x MWW 509 PB	2 x MWW 512 LB	2 x MWW 512 PB
Outdoor unit			TWD 514 BB	TWD 514 CB	TWD 518 BB	TWD 518 CB	TWD 524 BB	TWD 524 CB
Refrigerant	Type		R 22	R 407 C	R 22	R 407 C	R 22	R 407 C
Cooling capacity (1)	(kW)		2 x 2.0	2 x 2.0	2 x 2.5	2 x 2.5	2 x 3.2	2 x 3.2
Cooling mode power input (1)	(kW)		2 x 0.71	2 x 0.8	2 x 0.94	2 x 1.0	2 x 1.23	2 x 1.33
Heating capacity (2)	(kW)		2 x 2.4	2 x 2.4	2 x 3.1	2 x 2.8	2 x 3.8	2 x 3.8
Heating mode power input (2)	(kW)		2 x 0.81	2 x 0.86	2 x 1.05	2 x 1.0	2 x 1.48	2 x 1.46
Coefficient of performance (2)			2.8	2.8	2.8	2.8	2.6	2.6
Total current	(A)		2 x 3.42	2 x 3.8	2 x 4.8	2 x 4.8	2 x 6.4	2 x 6.8
Air flow	indoor units (3)	(m³/h)	400	400	450	450	480	480
Expansion system (3)	(Unit/Type)		Capillary in TWD					
Sound power	indoor unit (3) (4)	(dB(A))	≤ 44	≤ 44	≤ 44	≤ 44	≤ 48	≤ 48
Sound pressure level	indoor unit (3) (4)	(dB(A))	≤ 36	≤ 36	≤ 36	≤ 36	≤ 40	≤ 40

(1) Cooling mode : air inlet temp. : 27°C DB / 19°C WB ; outdoor temperature : 35°C.

(2) Heating mode : air inlet temp. 20°C ; outdoor temperature : 7°C DB / 6°C WB.

(3) Maximum Air flow.

(4) Measurements taken in a furnished room appropriate to the unit's capacity.

(5) Sound pressure level 4 m from the unit in a free field.

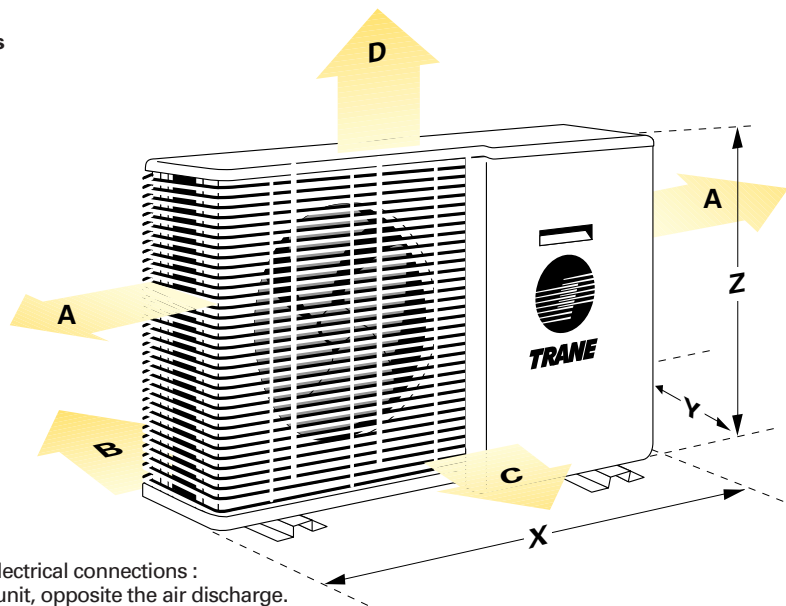


Cooling only quadra-split system (60 Hz only)

Indoor unit			4 x MCW 507 LB
Refrigerant	Type		R 22
Cooling capacity (1)	(kW)		4 x 2.5
Cooling mode power input (1)	(kW)		2 x 1.250
Total current	(A)		2 x 6.45
Air flow	indoor units (3)	(m³/h)	400
Expansion system (3)	(Unit/Type)		Capillary in TTQ
Sound power	indoor unit (3) (4)	(dB(A))	≤ 44
Sound pressure level	indoor unit (3) (4)	(dB(A))	≤ 36

Split System Cooling/Condensing Units

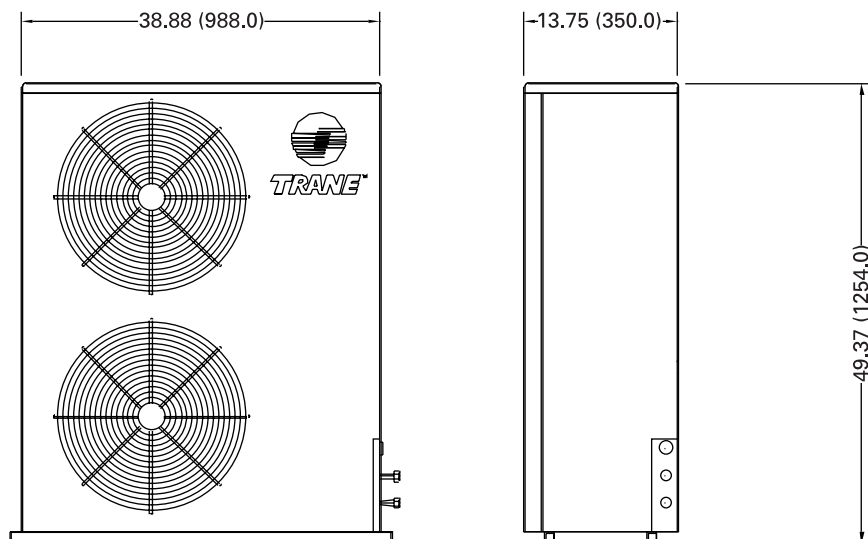
TTK outdoor units



Cooling line and electrical connections :
to the right of the unit, opposite the air discharge.

TTK	Dimensions (mm)			Clearance (mm)				Net weight (kg)
	X	Y	Z	A	B	C	D	
512 P	700	250	530	300	250	1200	600	36
518 524 P	830	330	692	300	250	1200	600	49.1, 55.5
530 P	830	330	692	300	250	1200	600	60.7
048 K, 060 K	988	350	1254	300	250	1200	600	102, 111

TTK 048K / TTK 060K



TTK Single Split Outdoor Units

Cooling: 12-60 MBH (50/60 Hz)

Features

- Horizontal Air Flow
- Slim, Attractive Design
- Optional Expansion device (TTK 512-524)
- Rotary Compressor TT K512-524
- Scroll Compressor TTK 530-536

General Data 50 Hz

Product Specification		TTK512PB00FA	TTK518PB00FA	TTK524PB00FA	TTK530PB00FA	TTK536KB00FA	TTK538KB00FA	TTK042KD00CA	TTK048KD00EA	TTK060KD00EA
MODEL	POWER CONN - Volts/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
MCA ¹		8.1	10.45	15.10	22.33	25.10	25.10	11.20	12.00	13.40
COMPRESSOR - Type		Rotary	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	R.L.Amps	6.16	8.00	11.30	17.10	19.30	19.30	8.20	8.90	10.00
	L.R.Amps	28.0	43.00	55.00	100.00	114.00	114.00	61.80	65.50	74.00
OUTDOOR FAN - Type		Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Diameter (in) - No.Used	15 - 1	18 - 1	18 - 1	18 - 1	20 - 1	20 - 1	20 - 1	18-2	18-2
	No.Motors - (HP)	1 - 40	1 - 1/15	1 - 1/8	1 - 1/8	1 - 1/6	1 - 1/6	1 - 1/6	2 - 1/15	2 - 1/15
	R.L.Amps	0.43	0.45	0.95	0.95	1.25	1.25	1.25	0.66	0.66
	L.R.Amps	0.62	0.95	1.78	1.78	1.53	1.53	1.53	0.8	0.8
OUTDOOR COIL - Type		Louver Fin	Louver Fin	Louver Fin	Louver Fin	Louver Fin	Louver Fin	Louver Fin	Louver Fin	Louver Fin
	Face Area (Sq.Ft)-(Sq.M)	3.0 - 0.28	5.60 - 0.52	5.60 - 0.52	5.60 - 0.52	7.29 - 0.68	7.29 - 0.68	7.29 - 0.68	11.67 - 1.08	11.67 - 1.08
REFRIGERANT										
	Kg.of R-22	2.4	2.20	2.74	4.00	3.40	3.40	3.70	4.70	5.20
	Line Size-OD Gas (in)-(mm)	1/2 - 12.7	1/2 - 12.7	5/8 - 15.88	5/8 - 15.88	3/4 (19.05)	3/4 (19.05)	7/8 - 22.23	1 1/8 - 28.6	1 1/8 - 28.6
	Line Size-OD Liq.(in)-(mm)	1/4 - 6.35	1/4 - 6.35	3/8 - 9.52	3/8 - 9.52	3/8 - 9.52	3/8 - 9.52	3/8 - 9.52	3/8 - 9.52	3/8 - 9.52

General Data 60Hz

Product Specification		TTK512PB00FA	TTK518PB00FA	TTK524PB00FA	TTK530PB00FA	TTK536KB00FA	TTK538KB00FA	TTK042KD00BA	TTK048KD00EA	TTK060KD00EA
MODEL	POWER CONN - Volts/Ph/Hz	200-240/1/60	200-240/1/60	200-240/1/60	200-240/1/60	200-240/1/60	200-240/1/60	380-460/3/60	380-460/3/60	380-460/3/60
MCA ¹		7.0	12.03	14.72	19.97	24.20	24.20	10.10	10.3	12.4
COMPRESSOR - Type		Rotary	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	R.L.Amps	5.20	9.10	10.80	15.00	18.40	18.40	7.10	7.20	8.90
	L.R.Amps	29.0	51.00	52.00	73.00	95.00	95.00	46.00	48.00	65.50
OUTDOOR FAN - Type		Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Diameter (in.) - No.Used	15 - 1	18 - 1	18 - 1	18 - 1	20 - 1	20 - 1	20 - 1	18-2	18-2
	No.Motors - (HP)	1 - 40	1 - 1/15	1 - 1/6	1 - 1/6	1 - 1/6	1 - 1/6	1 - 1/6	2 - 1/15	2 - 1/15
	R.L.Amps	0.46	0.65	1.22	1.22	1.25	1.25	1.25	0.66	0.66
	L.R.Amps	0.54	0.82	1.65	1.65	1.53	1.53	1.53	0.8	0.8
OUTDOOR COIL - Type		Louver Fin	Louver Fin	Louver Fin	Louver Fin	Louver Fin	Louver Fin	Louver Fin	Louver Fin	Louver Fin
	Face Area (Sq.Ft)-(Sq.M)	3.0 - 0.28	5.60 - 0.52	5.60 - 0.52	5.60 - 0.52	7.29 - 0.68	7.29 - 0.68	7.29 - 0.68	11.67 - 1.08	11.67 - 1.08
REFRIGERANT										
	Kg.of R-22	2.1	2.56	3.00	4.10	3.40	3.40	3.70	4.70	5.20
	Line Size-OD Gas (in)-(mm)	1/2 - 12.7	1/2 - 12.7	5/8 - 15.88	5/8 - 15.88	3/4 (19.05)	3/4 (19.05)	7/8 - 22.23	1 1/8 - 28.6	1 1/8 - 28.6
	Line Size-OD Liq.(in)-(mm)	1/4 - 6.35	1/4 - 6.35	3/8 - 9.52	3/8 - 9.52	3/8 (9.53)	3/8 (9.53)	3/8 - 9.52	3/8 - 9.52	3/8 - 9.52

¹ At ARI System rating condition 80 F-DB/67 F-WB outdoor

² MCA - Minimum circuit Ampacity ; calculated as follow : 125 % of compressor R.L.Amps



TTD + TTT



1.5 - 3 TR

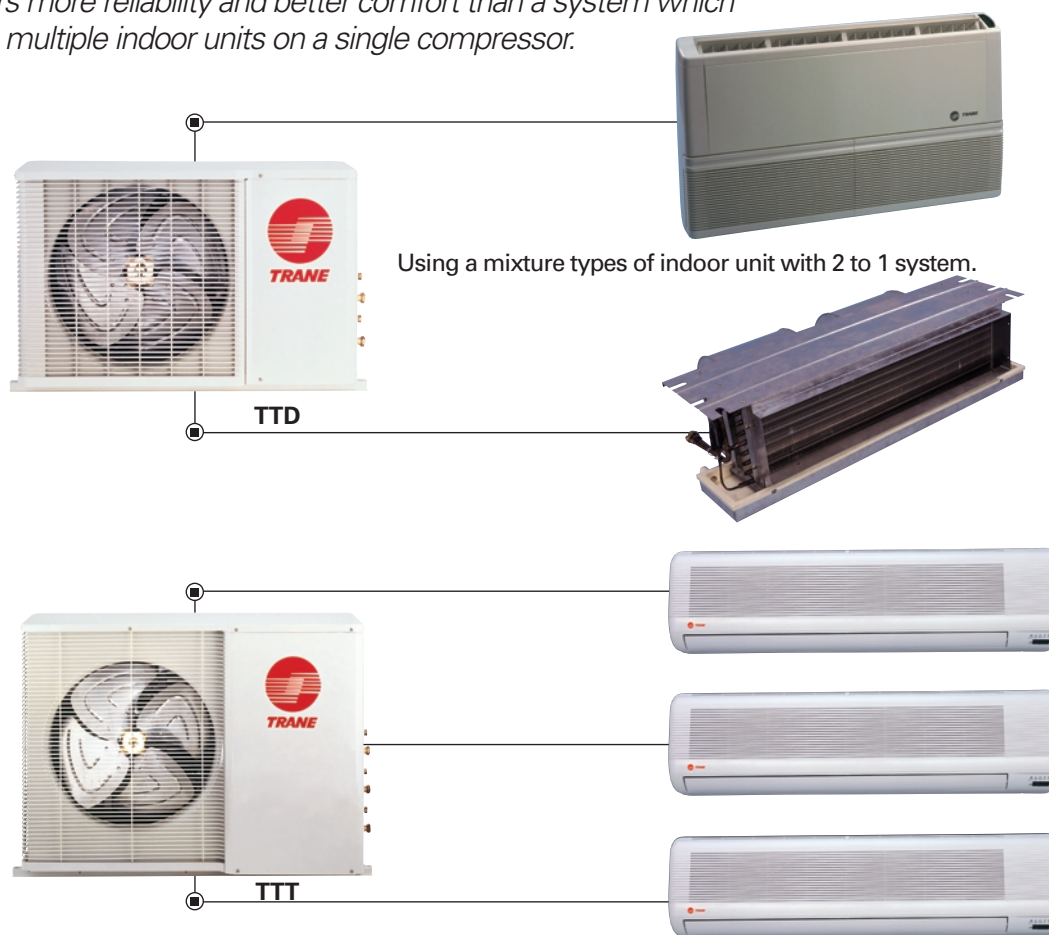


Multi-Split System Condensing Unit 18-36 MBh TTD+TTT Series 50/60 Hz

Flexibility - Trane multi-split system is an efficient, economical way to provide comfort in two rooms simultaneously with a 2 to 1 system (TTD) or up to three rooms simultaneously with a 3 to 1 system (TTT). It is possible to choose between combination of indoor unit either Hi-wall, Convertible or Concealed to suit your space and decor requirements.

Space Saving - Multi indoor unit with a single outdoor unit giving more usable outdoor space for more important things and better appearance.

Independent Circuits - Each of the independent compressors will operate with separate indoor unit as its own system. It offers more reliability and better comfort than a system which gangs multiple indoor units on a single compressor.



Using a mixture types of indoor unit with 2 to 1 system.

Using a mixture types of indoor unit with 3 to 1 system.

RESIDENTIAL RANGE

Specification 50 Hz

TTT/TTD Multi-Split Condensing Unit with Stylus, Illusion and Contura 3G Indoor Unit

OUTDOOR MODEL - TT	D518AB0E	D521AB0E	T521AB0E	D524AB0E	D524AB0E	T527AB0E	T530AB0E	D536AB0E	D536AB0E	T536AB0E	T536AB0E	D536AB0E	D536AB0E	T536AB0E	D536AB0E	T536AB0E
Indoor Unit #1	MCW509	MCW509	MCW507	MCW512	MCW512	MCW509	MCW509	MCW509	MCW518	MCW518	MCW512	MCW512	MCW512	MCW512	MCW512	MCW518
Indoor Unit #2	MCW509	MCW512	MCW507	MCW512	MCW512	MCW509	MCW509	MCW512	MCW518	MCW518	MCW512	MCW512	MCW512	MCW512	MCW512	MCW518
Indoor Unit #3	-	-	MCW507	-	-	MCW509	MCW509	MCW512	-	-	MCW512	MCW512	MCW512	MCW512	MCW512	MCW509
POWER CONN - V	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240
POWER CONN - Ph/Hz	1/50	1/50	1/50	1/50	1/50	1/50	1/50	1/50	1/50	1/50	1/50	1/50	1/50	1/50	1/50	1/50
MCA ^{1,2}	10.1	12.5	12.2	14.4	14.4	14.9	17.3	19.2	19.0	19.0	21.1	21.1	21.1	21.3	21.3	19.6
Nom. Capacity (Btu/h)	8,600	8,600	7,000	11,000	12,000	8,600	8,600	17,000	18,000	18,000	11,000	12,000	12,000	11,000	12,000	17,000
System #1	8,600	11,000	7,000	11,000	12,000	8,600	8,600	11,000	18,000	18,000	11,000	12,000	12,000	11,000	12,000	17,000
System #2	8,600	11,000	7,000	11,000	12,000	8,600	8,600	11,000	18,000	18,000	11,000	12,000	12,000	11,000	12,000	8,600
System #3	-	-	7,000	-	-	8,600	8,600	11,000	-	-	11,000	12,000	12,000	12,000	24,000	8,600
ELECTRICAL DATA - Outdoor																
R.L.Amps ³ -System #1	4.3	6.2	3.5	6.2	6.2	4.3	4.3	8.0	8.0	8.0	6.2	6.2	6.2	6.2	6.2	8
R.L.Amps ³ -System #2	4.3	6.2	3.5	6.2	6.2	4.3	4.3	8.0	8.0	8.0	6.2	6.2	6.2	6.2	11.3	4.3
R.L.Amps ³ -System #3	-	-	3.5	-	-	4.3	6.2	-	-	-	-	-	-	-	-	4.3
ELECTRICAL DATA - Indoor																
R.L.Amps ³ -System #1	0.09	0.14	0.08	0.14	0.36	0.09	0.09	0.25	0.42	0.57	0.14	0.14	0.14	0.36	0.45	0.25
R.L.Amps ³ -System #2	0.09	0.14	0.08	0.14	0.36	0.09	0.09	0.25	0.42	0.57	0.14	0.14	0.14	0.36	0.45	0.09
R.L.Amps ³ -System #3	-	-	0.08	-	-	0.09	0.14	-	-	-	0.14	0.36	0.45	0.36	0.56	0.09
Dimensions	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD
Outdoor Unit (mm)	590x952	590x952	666x1128	590x952	590x952	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128
Indoor Unit #1 (mm)	x330	x330	x360	x330	x330	x360	x360	x360	x360	x360	x360	x360	x360	x360	x360	x360
Indoor Unit #2 (mm)	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770
Indoor Unit #3 (mm)	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180
Weight	60.4	61.8	78.5	63.2	63.2	110	112	113.4	115.2	115.2	114.8	114.8	114.8	115.2	115.2	114.8
Outdoor Unit - Kg	8.5,8.5	8.5,8.5	8.5,8.5,8.5	8.5,8.5	8.5,8.5	8.5,8.5,8.5	8.5,8.5,8.5	8.5,8.5,8.5	12.12	36.36	22.22	8.5,8.5,8.5	33.33,33.33	20,20,20	8.5,12	12.8,5,8.5

¹ At ARI system rating conditions of 80° F-DB/67° F-WB indoor & 95° F-DB outdoor.

² MCA - Minimum Circuit Ampacity; calculated as follows: 125% of compressor R.L. Amps plus the condenser fan motor R.L. Amps.

³ Rated for 25 feet (7.5 meters) of evacuated refrigerant piping.

⁴ When run three systems together the total amps will be lower than summation of amps of individual system due to sharing one CDU fan.

Specification 60 Hz

TTT/TTD Multi-Split Condensing Unit with Stylus, Illusion and Contura 3G Indoor Unit

OUTDOOR MODEL - TT	D518A10E	D521A10E	D524A10E	D524A10E	D524A10E	T527A10E	T530A10E	D536A10E	D536A10E	T536A10E	T536A10E	D536A10E	D536A10E	T536A10E	D536A10E	T536A10E
Indoor Unit #1	MCW509	MCW509	MCW507	MCW512	MCW512	MCW509	MCW509	MCW509	MCW518	MCW518	MCW512	MCW512	MCW512	MCW512	MCW512	MCW518
Indoor Unit #2	MCW509	MCW512	MCW507	MCW512	MCW512	MCW509	MCW509	MCW512	MCW518	MCW518	MCW512	MCW512	MCW512	MCW512	MCW512	MCW518
Indoor Unit #3	-	-	MCW507	-	-	MCW509	MCW509	MCW512	-	-	MCW512	MCW512	MCW512	MCW512	MCW512	MCW509
POWER CONN - V	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240	220-240
POWER CONN - Ph/Hz	1/60	1/60	1/60	1/60	1/60	1/60	1/60	1/60	1/60	1/60	1/60	1/60	1/60	1/60	1/60	1/60
MCA ^{1,2}	10.0	11.3	12.3	12.3	12.3	14.7	16.0	17.0	21.5	21.5	18.0	18.0	18.0	19.8	19.8	20.8
Nom. Capacity (Btu/h)	8,600	8,600	11,000	12,000	12,000	8,600	8,600	17,000	18,000	18,000	12,000	12,000	12,000	12,000	12,000	17,000
System #1	8,600	11,000	11,000	12,000	12,000	8,600	8,600	11,000	18,000	18,000	12,000	12,000	12,000	12,000	24,000	8,600
System #2	8,600	11,000	11,000	12,000	12,000	8,600	8,600	11,000	18,000	18,000	12,000	12,000	12,000	12,000	24,000	8,600
System #3	-	-	11,000	-	-	8,600	8,600	11,000	-	-	12,000	12,000	12,000	12,000	-	8,600
ELECTRICAL DATA - Outdoor																
R.L.Amps ³ -System #1	4.3	6.2	5.2	5.2	5.2	4.3	4.3	8.0	9.1	9.1	6.2	6.2	6.2	6.2	5.2	9.1
R.L.Amps ³ -System #2	4.3	6.2	5.2	5.2	5.2	4.3	4.3	8.0	9.1	9.1	6.2	6.2	6.2	6.2	10.8	4.2
R.L.Amps ³ -System #3	-	-	5.2	-	-	4.3	6.2	-	-	-	-	-	-	-	-	4.2
ELECTRICAL DATA - Indoor																
R.L.Amps ³ -System #1	0.17	0.17	0.17	0.48	0.47	0.17	0.17	0.32	0.67	0.67	0.17	0.48	0.47	0.47	0.47	0.32
R.L.Amps ³ -System #2	0.17	0.17	0.17	0.48	0.47	0.17	0.17	0.32	0.67	0.67	0.17	0.48	0.47	0.47	0.47	0.17
R.L.Amps ³ -System #3	-	-	0.17	-	-	0.17	0.17	-	-	-	0.17	0.48	0.47	0.47	-	0.17
Dimensions	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD	HxWxD
Outdoor Unit (mm.)	590x952	590x952	590x952	590x952	590x952	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128	795x1128
Indoor Unit #1 (mm.)	x330	x330	x330	x330	x330	x360	x360	x360	x360	x360	x360	x360	x360	x360	x360	x360
Indoor Unit #2 (mm.)	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770	250x770
Indoor Unit #3 (mm.)	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180	x180
Weight	60.4	61.8	78.5	63.2	63.2	110	112	113.4	115.2	115.2	114.8	114.8	114.8	115.2	115.2	114.8
Outdoor Unit - (Kg)	8.5,8.5	8.5,8.5	8.5,8.5	8.5,8.5	8.5,8.5	8.5,8.5,8.5	8.5,8.5,8.5	8.5,8.5,8.5	12.12	36.36	22.22	8.5,8.5,8.5	33.33,33.33	20,20,20	8.5,12	12.8,5,8.5

¹ At ARI system rating conditions of 80° F-DB/67° F-WB indoor & 95° F-DB outdoor.

² MCA - Minimum Circuit Ampacity; calculated as follows: 125% of compressor R.L. Amps plus the condenser fan motor R.L. Amps.

³ Rated for 25 feet (7.5 meters) of evacuated refrigerant piping.

⁴ When run three systems together the total amps will be lower than summation of amps of individual system due to sharing one CDU fan.

Only one indoor unit in order to equip several zones using a network of ducts.

A unit that can be easily installed thanks to its small dimensions and light weight.

A simple wall-mounted room thermostat allows the temperature to be set.

Very low level of noise : its biggest advantage.

Responds to aesthetic demands : the diffusers make the installation almost invisible.

FOR WHOM? FOR WHAT?

For offices, hotels, public buildings, businesses and residential applications, thanks to the Varitrac® applications.

For rooms varying between 20 m2 and 160 m2 in size.



TWE

TRANE'S ADVICE

This configuration is ideal for small and medium-sized surface areas equipped with false ceilings. An economical solution with discrete and quiet equipment.

However, this is an installation that must be included in planning at the time of construction.



TWG



1.5 - 5 T.R.

Features :

- Easy to clean coil and drain pan
- Convertible upflow to horizontal left, (no tools required) (matches installed units)
- Designed to use "off the shelf" standard size replaceable fiberglass filters – Industry Exclusive
- Easy to remove filters and blowers for easy cleaning and replacement
- Expanded application fit with narrow cabinet profile
- Easy access electrical controls and hook-up
- Attractive enamel finish
- R 4.2 - 1" insulation
- Versatile duct flange – allows flush fit $\frac{3}{4}$, 1 or $1\frac{1}{2}$ inch duct insulation
- Tight cabinet - low leak by design
- IAQ (Indoor Air Quality) sloped/free draining pan, no standing water
- Durable, glass-filled Lexan – Never rust, no leak drain pan
- Maximum depth 21 inches – fits pull-down staircase
- Exclusive maximum width $23\frac{1}{2}$ inches – fits 2 foot wide door
- Built-in time delay
- Full line $1\frac{1}{2}$ – 5 tons
- Direct drive motor
- Filter panel stamped with word "filter"
- **AccuTron™** refrigerant control
- Expansion valve (Bleed TXV) standard on 5-ton models
- Polarized plugs for easy hook-up to electric heaters
- 200/230 volt primary and 24 volt secondary transformer
- Electric heaters with breaker option on all sizes
- TWG Air Handlers are approved for modular or manufactured homes

Standard Efficiency Convertible Air Handlers



Convertible (208-230/1/60)

Tons	Unit Model No.	Cooling Capacity (MBH)	FCCV	Fan Speed	Dimensions H x W x D (in.)	Shipping Weight (Lbs.)	Supply Opening ^{1,2}	Return Opening ¹	Filter Sizes	Line Gas	Size Liquid
1 $\frac{1}{2}$	TWG018A140B	18	.049	3	43 x 16 x 21	108	14 x 12 $\frac{1}{4}$ or 13 x 11 $\frac{1}{4}$	14 x 18 $\frac{1}{4}$	14 x 20 x 1	$\frac{5}{8}$	$\frac{1}{4}$
2	TWG025A140B	24	.055	3	45.7 x 18 x 21	124	16 x 12 $\frac{1}{4}$ or 15 x 11 $\frac{1}{4}$	16 x 18 $\frac{1}{4}$	16 x 20 x 1	$\frac{3}{4}$	$\frac{5}{16}$
2 $\frac{1}{2}$	TWG030A140B	30	.069	3	45.7 x 18 x 21	125	16 x 12 $\frac{1}{4}$ or 15 x 11 $\frac{1}{4}$	16 x 18 $\frac{1}{4}$	16 x 20 x 1	$\frac{3}{4}$	$\frac{5}{16}$
3	TWG036A140B	36	.071	3	52 x 18 x 21	135	16 x 12 $\frac{1}{4}$ or 15 x 11 $\frac{1}{4}$	16 x 18 $\frac{1}{4}$	16 x 20 x 1	$\frac{7}{8}$	$\frac{3}{8}$
3	TWG037A140B	37	.071	3	43 x 21 $\frac{1}{2}$ x 21	145	19 $\frac{1}{2}$ x 12 $\frac{1}{4}$ or 18 $\frac{1}{2}$ x 11 $\frac{1}{4}$	19 $\frac{1}{2}$ x 18 $\frac{1}{4}$	20 x 20 x 1	$\frac{7}{8}$	$\frac{3}{8}$
3 $\frac{1}{2}$	TWG042A140B	42	.080	3	43 x 23 $\frac{1}{2}$ x 21	160	21 $\frac{1}{2}$ x 12 $\frac{1}{4}$ or 20 $\frac{1}{2}$ x 11 $\frac{1}{4}$	21 $\frac{1}{2}$ x 18 $\frac{1}{4}$	20 x 20 x 1	$\frac{7}{8}$	$\frac{3}{8}$
4	TWG048A140B	48	.083	3	48.3 x 23 $\frac{1}{2}$ x 21	185	21 $\frac{1}{2}$ x 12 $\frac{1}{4}$ or 20 $\frac{1}{2}$ x 11 $\frac{1}{4}$	21 $\frac{1}{2}$ x 18 $\frac{1}{4}$	20 x 20 x 1	$\frac{7}{8}$	$\frac{3}{8}$
5	TWG060A150B	58	TXV	3	57.3 x 23 $\frac{1}{2}$ x 21	205	21 $\frac{1}{2}$ x 12 $\frac{1}{4}$ or 20 $\frac{1}{2}$ x 11 $\frac{1}{4}$	21 $\frac{1}{2}$ x 18 $\frac{1}{4}$	22 x 20 x 1	$\frac{7}{8}$	$\frac{3}{8}$

¹ Actual opening does not include flange.

² Adjustable duct flange allows for a flush fit with $\frac{3}{4}$, 1 or $1\frac{1}{2}$ inch insulation.

Standard Efficiency 6 Way Convertible Air Handlers



Features :

- Ships horizontal - converts to upflow by standing unit on end.
- Six-way convertibility-horizontal (left & right); front & rear access; upflow, downflow
- "1-man" installation opportunity
- Electrical, refrigerant, condensate & blower access convertible to either side
- Versatile duct flange - allows flush fit $\frac{3}{4}$ ", 1", or $1\frac{1}{2}$ " duct insulation
- Compact 21" depth for easy installation
- Uses BAYHTR1400 series heaters
- Corrosion resistant galvanized metal with attractive finish
- IAQ (Indoor Air Quality) sloped/free draining pan, no standing water
- TWE air handlers are approved for modular or manufactured homes.
- Superior condensate performance
- Enhanced internally finned coil tubes
- Direct drive motor
- Standard size filters
- Multi-speed blower
- 200/230 volt primary & 24 volt secondary transformer
- Low voltage wire nut connections
- Insulated cabinet
- External access to heater circuit breakers
- Polarized plugs for making electrical connections from air handler control box to heaters
- Built-in indoor fan delay function for increased efficiency. No kit required.
- Motors internally isolated

Convertible (200/230/1/60)

Tons	Unit Model No.	Cooling Capacity (MBH)	FCCV	Fan Speed	Dimensions H x W x D (in.)	Shipping Weight (lbs.)	Supply Opening ^{1,2}	Return Opening ¹	Filter Sizes	Line Gas	Size Liquid
1½	TWE018C140B	18	.049	3	43 x 21½ x 21	113	19¼ x 12 or 18¼ x 11	19½ x 18	20 x 20 x 1	5/8	¼
1½	TWE018C14FB (Air Tite™)	18	.049	3	43 x 21½ x 21	113	19¼ x 12 or 18¼ x 11	19½ x 18	20 x 20 x 1	5/8	¼
2	TWE024C140B	24	.055	3	43 x 21½ x 21	115	19¼ x 12 or 18¼ x 11	19½ x 18	20 x 20 x 1	¾	5/16
2	TWE024C14FB (Air Tite™)	24	.055	3	43 x 21½ x 21	115	19¼ x 12 or 18¼ x 11	19½ x 18	20 x 20 x 1	¾	5/16
2½	TWE030C140B	30	.067	3	43 x 21½ x 21	120	19¼ x 12 or 18¼ x 11	19½ x 18	20 x 20 x 1	7/8	3/8
2½	TWE030C14FB (Air Tite™)	30	.067	3	43 x 21½ x 21	120	19¼ x 12 or 18¼ x 11	19½ x 18	20 x 20 x 1	7/8	3/8
3	TWE036C140B	36	.071	3	43 x 21½ x 21	125	19¼ x 12 or 18¼ x 11	19½ x 18	20 x 20 x 1	7/8	3/8
3	TWE036C14FB (Air Tite™)	36	.071	3	43 x 21½ x 21	125	19¼ x 12 or 18¼ x 11	19½ x 18	20 x 20 x 1	7/8	3/8
3½	TWE042C140C	42	.080	3	45 x 23½ x 21	145	21¼ x 12 or 20¼ x 11	21½ x 18	20 x 20 x 1	7/8	3/8
3½	TWE042C14FC (Air Tite™)	42	.080	3	45 x 23½ x 21	145	21¼ x 12 or 20¼ x 11	21½ x 18	20 x 20 x 1	7/8	3/8
4	TWE048C140C	48	.083	3	52 x 23½ x 21	165	21¼ x 12 or 20¼ x 11	21½ x 18	20 x 20 x 1	1⅞	3/8
4	TWE048C14FC (Air Tite™)	48	.083	3	51 x 23½ x 21	165	21¼ x 12 or 20¼ x 11	21½ x 18	20 x 20 x 1	1⅞	3/8
5	TWE060D150B	60	TXV	3	58 x 23½ x 21	185	21¼ x 12 or 20¼ x 11	21½ x 18	22 x 20 x 1	1⅞	3/8
5	TWE060C15FD ³ (Air Tite™)	60	TXV	3	57 x 23½ x 21	185	21¼ x 12 or 20¼ x 11	21½ x 18	22 x 20 x 1	1⅞	3/8

¹ Actual opening does not include flange.

² Adjustable duct flange allows for a flush fit with 1 1/2 inch insulation or 3/4 inch or 1 inch insulation.

³ Two piece cabinet.



TWE - P

R22 1.5 - 5 T.R.

Features :

- 12.0 SEER
- Ships horizontal - converts to upflow by standing unit on end
- Six-way convertibility-horizontal (left & right);front & rear access; upflow, downflow
- "1- man" installation opportunity
- Electrical, refrigerant, condensate & blower access convertible to either side
- Compact 21" depth for easy installation
- Corrosion resistant galvanized metal with attractive finish
- Superior condensate performance• Enhanced internally finned coil tubes
- Direct drive motor
- IAQ (Indoor Air Quality) sloped/free draining pan, no standing water
- Versatile duct flange - allows flush fit 3/4", 1", 1 1/2" duct insulation
- Filter panel stamped with word "filter"
- 200/230 volt primary & 24 volt secondary transformer
- Low voltage wire nut connections
- Insulated cabinet
- External access to heater circuit breakers
- Polarized plugs for making electrical connections from air handler control box to heaters
- Factory installed non-bleed TXV
- TWE Air Handlers are approved for modular or manufactured homes
- 1-year limited parts warranty

Improved Efficiency Convertible Air Handlers



Convertible (200/230/1/60)

Tons	Unit Model No.	Cooling Capacity (MBH)	FCCV	Fan Speed	Dimension H x W x D (in.)	Shipping Weight (lbs.)	Supply Opening ^{1 2}	Return Opening ¹	Filter Sizes	Line Gas	Size Liquid
1 1/2	TWE018P130B	18	TXV	3	43 x 21 1/2 x 21	114	19 1/4 x 12 or 18 1/4 x 11	19 1/2 x 18	20 x 20 x 1	5/8	1/4
1 1/2	TWE018P13FB (Air Tite™)	18	TXV	3	43 x 21 1/2 x 21	114	19 1/4 x 12 or 18 1/4 x 11	19 1/2 x 18	20 x 20 x 1	5/8	1/4
2	TWE024P130B	24	TXV	3	43 x 21 1/2 x 21	121	19 1/4 x 12 or 18 1/4 x 11	19 1/2 x 18	20 x 20 x 1	3/4	5/16
2	TWE024P13FB (Air Tite™)	24	TXV	3	43 x 21 1/2 x 21	121	19 1/4 x 12 or 18 1/4 x 11	19 1/2 x 18	20 x 20 x 1	3/4	5/16
2 1/2	TWE030P130B	30	TXV	3	43 x 21 1/2 x 21	121	19 1/4 x 12 or 18 1/4 x 11	19 1/2 x 18	20 x 20 x 1	3/4	5/16
2 1/2	TWE030P13FB (Air Tite™)	30	TXV	3	43 x 21 1/2 x 21	121	19 1/4 x 12 or 18 1/4 x 11	19 1/2 x 18	20 x 20 x 1	3/4	5/16
3	TWE036P130B	36	TXV	3	45 x 21 1/2 x 21	135	19 1/4 x 12 or 18 1/4 x 11	19 1/2 x 18	20 x 20 x 1	7/8	3/8
3	TWE036P13FB (Air Tite™)	36	TXV	3	45 x 21 1/2 x 21	135	19 1/4 x 12 or 18 1/4 x 11	19 1/2 x 18	20 x 20 x 1	7/8	3/8
3 1/2	TWE042P130B	42	TXV	3	52 x 23 1/2 x 21	165	21 1/4 x 12 or 20 1/4 x 11	21 1/2 x 18	20 x 20 x 1	7/8	3/8
3 1/2	TWE042P13FB (Air Tite™)	42	TXV	3	52 x 23 1/2 x 21	165	21 1/4 x 12 or 20 1/4 x 11	21 1/2 x 18	20 x 20 x 1	7/8	3/8
4	TWE048P130B	48	TXV	3	57 x 26 x 21	188	23 3/4 x 12 or 22 3/4 x 11	24 x 18	20 x 25 x 1	1 1/8	3/8
4	TWE048P13FB (Air Tite™)	48	TXV	3	57 x 26 x 21	188	23 3/4 x 12 or 22 3/4 x 11	24 x 18	20 x 25 x 1	1 1/8	3/8
5	TWE060P130B	58	TXV	3	57 x 26 x 21	193	23 3/4 x 12 or 22 3/4 x 11	24 x 18	20 x 25 x 1	1 1/8	3/8
5	TWE060P13FB (Air Tite™)	58	TXV	3	57 x 26 x 21	193	23 3/4 x 12 or 22 3/4 x 11	24 x 18	20 x 25 x 1	1 1/8	3/8
5	TWE063P130B ¹	60	TXV	3	63 x 26 x 21	211	23 3/4 x 12 or 22 3/4 x 11	24 x 18	20 x 25 x 1	1 1/8	3/8
5	TWE063P13FB ¹ (Air Tite™)	60	TXV	3	63 x 26 x 21	211	23 3/4 x 12 or 22 3/4 x 11	24 x 18	20 x 25 x 1	1 1/8	3/8

¹ Two piece cabinet.

² Actual opening does not include flange.

High Efficiency 6 Way Convertible Air Handlers

- TWE air handlers are approved for modular or manufactured homes.
- TWE031E airflow selectable for 1½ – 3 ton O.D. unit
- TWE037E airflow selectable for 2 – 3½ ton O.D. unit
- TWE040E airflow selectable for 2 – 3½ ton O.D. unit
- TWE049E airflow selectable for 3 – 5 ton O.D. unit
- TWE065E airflow selectable for 3½ – 5 ton O.D. unit



Features :

- Ships horizontal - converts to upflow by standing unit on end
- Six-way convertibility
- Electrical, refrigerant, condensate & blower access convertible to either side
- Compact 21" depth for easy installation
- Variable speed Direct drive motor
- Enhanced **Comfort-R™** dehumidification start-up
- Soft start - cycle-on speed is ramped up gradually to reduce sound and draft
- 200/230 volt primary & 24 volt, 77 VA secondary transformer
- 1" thick insulated cabinet
- Corrosion resistant galvanized metal with attractive finish
- Versatile duct flange - allows flush fit ¾", 1", or 1½" duct insulation
- Low voltage terminal board
- External brazed refrigerant connections
- Filter panel stamped with word "filter"
- Filter door seal
- Exclusive duct flange thermal break/seal
- Check valve for heat pump application
- IAQ (Indoor Air Quality) sloped/free draining pan, no standing water
- Expansion valve refrigerant control
- Internally enhanced finned coil tubing
- Access to heater circuit breakers
- Polarized plugs for making motor and transformer electrical connections from air handler control box to electric heaters
- Primary and secondary drain connections
- Built-in indoor fan delay function for increased efficiency
- TWE-E Start Kit required with single-speed outdoor only
- Enhanced cooling/heating control Air Tite™

Convertible, Variable Speed with Comfort-R™ Enhanced Mode Option (200/230/1/60)

Tons	Unit Model No.	Cooling Capacity (MBH)	FCCV	Fan Speed	Dimensions H x W x D (in.)	Shipping Weight (lbs.)	Supply Opening ^{1,2}	Return Opening ¹	Filter Sizes	Line Gas	Size Liquid
1½-3	TWE031E13FB	31	TXV	Variable	43 x 21½ x 21	134	19¼ x 12 or 18¼ x 11	19½ x 18	20 x 20 x 1	¾	5/16
2-3½	TWE037E13FB	37	TXV	Variable	45 x 23½ x 21	142	21¼ x 12 or 20¼ x 11	21½ x 18	20 x 20 x 1	7/8	3/8
2-3½	TWE040E13FB	40	TXV	Variable	52 x 26 x 21	174	23¾ x 12 or 22¾ x 11	24 x 18	20 x 25 x 1	7/8	3/8
3-5	TWE049E13FB	49	TXV	Variable	58 x 26 x 21	188	23¾ x 12 or 22¾ x 11	24 x 18	20 x 25 x 1	1½	3/8
3½-5	TWE065E13FB*	65	TXV	Variable	63 x 26 x 21	218	23¾ x 12 or 22¾ x 11	24 x 18	20 x 25 x 1	1½	3/8

¹Actual opening does not include flange. * Two-Piece Cabinet

Convertible, Dual Circuit, Variable Speed with Comfort-R™ Enhanced Mode Option (200/230/1/60)

Tons	Unit Model No.	Cooling Capacity (MBH)	FCCV	Fan Speed	Dimensions H x W x D (in.)	Shipping Weight (lbs.)	Supply Opening ^{1,2}	Return Opening ¹	Filter Sizes	Line Gas	Size Liquid
3-6	TWE062E13FB	64	TXV(2)	Variable	62¾ x 26 x 21	218	23¾ x 12 or 22¼ x 11	24 x 18	20 x 25 x 1	¾	3/8

¹Actual opening does not include flange.

Features :

- Climatuff® compressor
- Spine Fin™ all-aluminum coil
- Vertical discharge
- Heavy-gauge steel cabinet
- Unique powder paint for superior appearance and weather protection
- Single-side service access
- Flare connection

Cooling/Heat Pump Condensing Units



TTB/TWJ
Cooling/Heat Pump
 10-36 MBH (50 Hz)

TTB/TWJ

	Power Supply	Nominal Cooling Capacity	Uncrated Dimensions (in.)			Shipping
Model No.	Volts/Phase/Hz	(Btuh)	H	W	D	Weight (Lbs)
50 Hz Cooling (Flared)	200-230/1/50					
TTB510CA00A0		10,000	24	18	18	112
TTB515CA00A0		15,000	24	18	18	112
TTB520CA00A0		20,000	24	18	18	125
TTB524CA00A0		24,000	24	18	18	125
TTB530CA00A0		30,000	26	25	25	166
TTB536CA00A0		36,000	33	25	25	174
Heat Pump (Braze)	200-230/1/50					
TWJ010C		10,000	24	24	20	146
TWJ015C		15,000	24	24	20	146
TWJ020C		20,000	24	28	25	170
TWJ030C		30,000	33	28	25	202

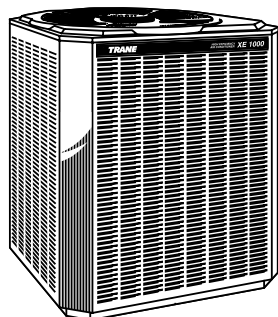
Features :

- Climatuff® compressor
- Spine Fin™ all-aluminum coil
- Multi-use service valves
- Steel cabinet, full coil protection
- Power paint for superior appearance and weather protection
- Vertical air discharge
- Weatherproofed electrical controls
- Flare or brazed connection

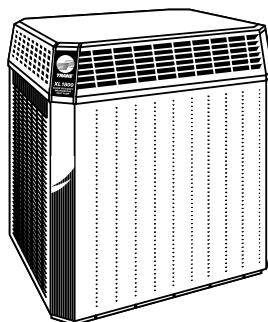
TTB
Cooling Only
 12,000 - 36,000 Btuh (60 Hz)

	Power Supply	Nominal Cooling Capacity	Uncrated Dimensions (in.)			Shipping
Model No.	Volts/Phase/Hz	(Btuh)	H	W	D	Weight (Lbs)
60 Hz Cooling (Flared)						
TTB512C100A	200/230/1/60	12,000	24	18	18	112
TTB518C100A		18,000	24	18	18	112
TTB524C100A		24,000	24	18	18	125
TTB530C100A		30,000	26	25	25	166
Cooling (Braze)						
TTB012C100A	200/230/1/60	12,000	24	18	18	118
TTB018C100A		18,000	24	18	18	118
TTB024C100A		25,000	24	18	18	130

Cooling Phase



XE 1000



XL 1800

XE 1000 Split System Cooling — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
TTR018D100A	200/230/1/60	18	.053	24	24	20	144	82	11	15	5/8	1/4
TTR025C100A	200/230/1/60	24	.055	24	24	20	144	82	15	25	3/4	5/16
TTR030C100A	200/230/1/60	30	.067	24	28	25	162	78	20	30	3/4	5/16
TTR036D100A	208/230/1/60	36	.071	24	28	25	163	78	26	45	7/8	3/8
TTR042D100B	208/230/1/60	42	.080	33	28	25	208	78	28	45	7/8	3/8
TTR048D100A	208/230/1/60	48	.083	29	33	29	213	78	31	50	1 1/8	3/8
TTR060D100A	208/230/1/60	60	.092	41	33	29	259	79	38	60	1 1/8	3/8

XL 1800 Split System Cooling — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
TTZ036A100A	200/230/1/60	36	TXV	43	40	36	450	74	22	35	7/8	3/8
TTZ048A100A	200/230/1/60	48	TXV	43	40	36	460	74	25	40	1 1/8	3/8
TTZ060A100A	200/230/1/60	60	TXV	43	40	36	470	74	38	60	1 1/8	3/8

* Information subject to change. Please confirm with current Product Data/Service Facts for current factory production.



Split System Cooling

Single Phase – 1.5 - 5 T.R.

Features	XL 1800 (TTZ)	XE 1000 (TTR)
• SEER's up to	18.00	10.90
• 2-speed fan	✓	—
• Compressor sound enclosure	✓	—
• Climatuff® compressor	✓	✓
• Spine Fin™ coil	✓	✓
• Single side service	✓	✓
• Full coil protection with louvered panels	✓	✓
• Unique powder paint for superior appearance and weather protection	✓	✓
• Liquid line filter drier	✓	✓
• Braze refrigerant connections	✓	✓
• Multi-use service valves	✓	✓
• Direct-Drive propeller fan	✓	✓
• Weatherproof electrical controls	✓	✓
• Factory supplied charge of HCFC-22	✓	✓
• XL Seacoast Shield	✓	—

Optional Accessories

BAY41X228	Quick start kit	—	—
BAYKSKT250B	Quick start kit	—	1½-2½ Ton
BAYKSKT252A	Quick start kit	—	3-5 Ton
BAYKSKT260	Quick start kit	—	—
BAYCCHT200A ⁷	Crank Case Heater Kit	—	3-4 Ton
BAYCCHT201A ⁷	Crank Case Heater Kit	—	5 Ton
BAY24X045	Indoor fan delay relay kit	—	✓
AY28X079	Evaporator defrost control	✓	✓
BAYISLT100	Rubber isolators (4)	—	✓
BAYSEAC001	Seacoast Kit	—	✓

¹ Do not use with programmable thermostats.

Thermostats

AY28X092	1-Stage Heat/1-Stage Cool (Horiz.)	—	✓
TAYSENS100A ⁴	Outdoor Temp. Sensor	✓	✓
TAYSTAT241	Manual 2 Stg Htg/1 Clg	✓	✓
TAYASCT501A ¹	5 minute delay relay	✓	✓
TAYSTAT250B	Outdoor Thermostat	✓	✓
TAYSTAT300C	XT300C 7 Day Programmable	—	✓
TAYSTAT302C	XT302C 7 Day Programmable	✓	✓
TAYSTAT340	Prog., 5/2 Day, 1(Elec./Gas)Htg/1Clg	—	—
TAYSTAT350	Prog., 5/2 Day, Manual, 2 (Gas) Htg/1Clg	—	—
TAYSTAT370	Electronic, 1Htg(Gas)/1Clg(Non Prog.)	—	✓
TAYSTAT371 ³	Electronic, 1Htg(Elec.)/1Clg(Non Prog.)	—	✓
TAYSTAT380	Electronic, 2 Htg (Gas)/1 Clg (Non Prog.)	—	—
BAYSENS024A	Outdoor Temperature Sensor	✓	—
BAYSENS025A	Remote Temperature Sensor	✓	—
BAYSTAT037A	Prog. Auto 2 Stage Htg/Clg	✓	—
BAYSTAT253	Humidistat	✓	—
BAYSTAT304	Cooling Only With Fan Switch	—	✓
BAYSTAT305	1-Step Heat/1-Step Cool (Vert.)	—	✓
BAY28X182 ¹	1-Stage Heating/Cooling	—	—
BAY28X183 ¹	2-Stage Heating/Cooling	✓	—
BAY28X184 ⁵	Subbase (Automatic/Manual Changeover) ..	✓	—
BAY28X185 ⁶	Subbase (Manual Changeover)	✓	—
BAY28X187 ⁶	Subbase (Automatic Changeover)	✓	—
BAY28X190	Locking Thermostat Cover	✓	✓

¹ Requires Subbase.

² Requires BAY24X042 relay kit when used with electric heat.

³ Specifically designed for electric heat applications (instant on fan).

⁴ Used with TAYSTAT300C, TAYSTAT302C.

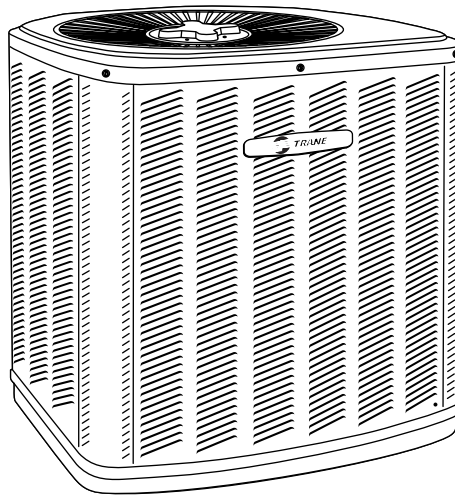
⁵ Use with BAY28X183.

⁶ Use with BAY28X182, BAY28X183.

⁷ When field inner connecting lines exceed the standard 60 linear feet of length consult refrigerant piping software (Pub. No. 32-3312-01).

XB 10 Split System Cooling

NEW!



Features:

- **Climateuff®** compressor
- All aluminum **Spine Fin™** coil
- **DuraTuff™** base, fast complete drain, weather proof
- New cabinet with anthracite base and polystate gray cabinet
- **Quick-Sess™** cabinet, service access and refrigerant connections with full coil protection
- Corrosion resistant finish and fasteners
- High/low pressure & temperature protection
- Liquid line filter-drier
- Easy single side service
- Multi-use liquid and suction line service valves
- Easy top & fan removal
- Full length control cover
- **SureFast™** seams louver panel removal
- HCFC-22 refrigerant
- **Extended warranties available**
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 55°F as shipped
- Low ambient cooling to 40°F with EDC accessory AY28X079
- Low ambient cooling to 30°F with EDC accessory AY28X079 and TXV

Specifications: 1 Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Uncrated Dimensions (in)			Shipping Weight	
			H	W	D		
2TTB0012A1000A	200/230/1/60	12	26	20	19	132	4th
2TTB0018A1000A	200/230/1/60	18	26	20	19	129	Quarter
2TTB0024A1000A	200/230/1/60	24	26	20	19	141	Production
2TTB0030A1000A	200/230/1/60	30	26	29	26	169	
2TTB0036A1000A	200/230/1/60	36	26	29	26	175	
2TTB0042A1000A	200/230/1/60	42	29	29	26	208	
2TTB0048A1000A	200/230/1/60	48	29	29	26	218	
2TTB0060A1000A	200/230/1/60	60	33	33	30	256	

Accessories:

Model Number	Description	Used With	Shipping Weight
TAYSTAT300C	XT 300C Programmable Therm.	All Cooling Models	2
TAYSENS100A	Outdoor Temp. Sensor	TAYSTAT300C,302C	1
TAYSTAT370	Electronic, 1Htg (Gas)/1 Clg (Non Prog.)	All Cooling/Gas Models	1
TAYSTAT371 ¹	Electronic, 1Htg (Elec.)/1 Clg (Non Prog.)	All Cooling/E.H. Models	1
BAYSTAT304	Cooling Only w/Fan Switch	All Cooling Models	1
BAYSTAT305	Heat/Cool (Vertical) Therm.	All Cooling Models	1
AY28X092	Heat/Cool (Horiz.) Therm.	All Cooling Models	2
BAY28X190	Locking Thermostat Cover	Room Thermostats	2
TAYSTAT250B	Outdoor Thermostat	Cooling & Heat Pump Models	1
AY28X079	Evap. Defrost Control Kit	All Cooling Models	1
BAY24X045	ID Fan Delay Relay Kit	All Cooling Models	1
TAYASCT501A ²	5 Minute Delay Relay	All Cooling Models	1
BAYSKT257	Start Kit	1 - 5 Ton Models	1
BAYECMT001	Extreme Condition Mounting Kit	All Cooling Models	2
BAYSEAC001	Seacoast Kit	All Cooling Models	1

¹ Specifically designed for electric heat applications (instant on fan)

² Not for use with programmable thermostats.



2TTR2

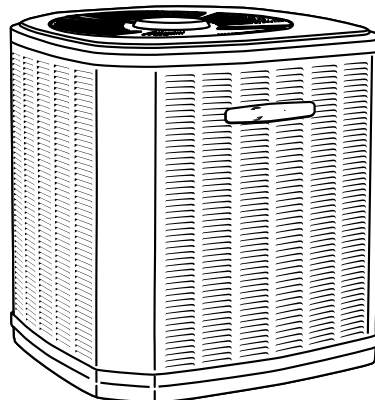
R22 1.5 - 5 T.R.

Features :

- **Climatuff**® compressor
- Efficiency up to 13.0 SEER
- All aluminum **Spine Fin**™ coil
- **DuraTuff**™ base, fast complete drain, weather proof
- **WeatherGuard**™ fasteners
- New appearance with enhanced consumer cues
- New tarpaulin gray cabinet with anthracite badge and base
- Low sound ratings
- **Quick-Sess**™ cabinet, service access and refrigerant connections with full coil protection
- Glossy corrosion resistant finish
- High/low pressure & temperature protection
- All models have designed startability
- 018 and 024 ship with start kit
- Liquid line filter-drier
- **Comfort"R"**™ mode approved
- Easy single side service
- Multi-use liquid and suction line service valves
- Easy top & fan removal
- Full length control and service valve cover
- **SureFast**™ seams louver panel removal
- HCFC-22 refrigerant
- S.E.E.T. design testing

XR 12 Split System Cooling

NEW!



Specifications: 1 Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Uncrated Dimensions (in)			Shipping Weight
			H	W	D	
2TTR2018A1000A	200/230/1/60	18	26	29	26	171
2TTR2024A1000A	200/230/1/60	24	29	29	26	187
2TTR2030A1000A	208/230/1/60	30	29	29	26	180
2TTR2036A1000A	208/230/1/60	36	33	29	26	195
2TTR2042A1000A	208/230/1/60	42	33	33	30	228
2TTR2048A1000A	208/230/1/60	48	37	33	30	247
2TTR2060A1000A	208/230/1/60	60	37	33	30	270

Accessories:

Model Number	Description	Used With	Shipping Weight
TAYSTAT300C XT	300C Programmable Therm.	All Cooling Models	2
TAYSTAT302C	XT 302C Elec. 2 Stg. Htg/1 Clg	All Cooling Models	1
TAYSENS100A	Outdoor Temp. Sensor	TAYSTAT300C,302C	1
TAYSTAT340	Prog., 5/2 Day, Manual, 1Htg/1 Clg	All Cooling Models	1
TAYSTAT350	Prog., 5/2 Day, Manual, 2(Gas) Htg/1 Clg	All Cooling/Gas Models	1
TAYSTAT370	Electronic, 1Htg (Gas)/1 Clg (Non Prog.)	All Cooling/Gas Models	1
TAYSTAT371 ²	Electronic, 1Htg (Elec.)/1 Clg (Non Prog.)	All Cooling/E.H. Models	1
TAYSTAT380	Electronic, 2 Htg (Gas)/1 Clg (Non Prog.)	All Cooling/Gas Models	1
TAYSTAT241	Manual 2 Stg Htg/1 Clg	All Cooling Models	1
BAY28X182 ¹	1-Stage Htg/Clg Therm.	All Cooling Models	1
BAY28X183 ¹	2-Stage Htg/Clg Therm.	All Cooling Models	1
BAY28X185 ²	Subbase (Man. Changeover)	BAY28X182,183	1
BAYSTAT304	Cooling Only w/Fan Switch	All Cooling Models	1
BAYSTAT305	Heat/Cool (Vertical) Therm.	All Cooling Models	1
AY28X092	Heat/Cool (Horiz.) Therm.	All Cooling Models	2
BAY28X190	Locking Thermostat Cover	Room Thermostats	2
TAYSTAT250B	Outdoor Thermostat	Cooling & Heat Pump Models	1
AY28X079	Evap. Defrost Control Kit	All Cooling Models	1
BAY24X045	ID Fan Delay Relay Kit	All Cooling Models	1
TAYASCT501A ³	5 Minute Delay Relay	All Cooling Models	1
BAYKSKT260	Start Kit	2.5 - 4 Ton Models	1
BAYECMT001	Extreme Condition Mounting Kit	All Cooling Models	2
BAYSEAC001	Seacoast Kit	All Cooling Models	1

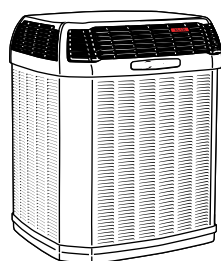
¹ Requires Subbase

² Specifically designed for electric heat applications (instant on fan)

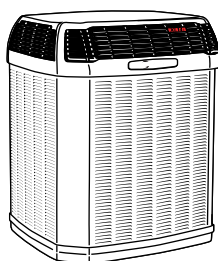
³ Not for use with programmable thermostats.

4TTX / 4TTR

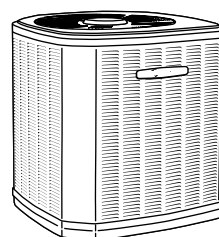
R410A 1.5 - 5 T.R.



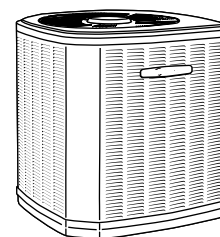
XL13i



XL14i



XR 12



XR 12

XL 13i Split System Cooling — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
4TTX3018A1000A	200-230/1/60	18	.049	40	33	30	230	74/76	10	15	1/2	1/4
4TTX3024A1000A	200-230/1/60	24	.053	40	33	30	233	76/76	12	20	5/8	5/16
4TTX3030A1000A	208-230/1/60	30	.059	40	33	30	232	72/74	20	30	3/4	5/16
4TTX3036A1000A	208-230/1/60	36	.065	40	33	30	245	72/74	20	35	3/4	3/8
4TTX3042A1000A	208-230/1/60	42	.071	44	33	30	257	76/76	25	40	3/4	3/8
4TTX3048A1000A	208-230/1/60	48	.077	48	33	30	275	74/76	31	50	7/8	3/8
4TTX3060A1000A	208-230/1/60	60	.083	42	37	34	307	76/78	36	60	7/8	3/8

XL 14i Split System Cooling — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
4TTX4018A1000A	200-230/1/60	18	.047	40	33	30	236	76/76	10	15	1/2	1/4
4TTX4024A1000A	200-230/1/60	24	.053	40	33	30	239	78/78	13	20	5/8	5/16
4TTX4030A1000A	208-230/1/60	30	.059	40	33	30	242	76/74	20	30	3/4	5/16
4TTX4036A1000A	208-230/1/60	36	.065	44	33	30	255	74/72	21	35	3/4	3/8
4TTX4042A1000A	208-230/1/60	42	.071	46	37	34	297	78/76	25	40	3/4	3/8
4TTX4048A1000A	208-230/1/60	48	.075	50	37	34	310	78/75	27	45	7/8	3/8
4TTX4060A1000A	208-230/1/60	60	.086	50	37	34	360	78/78	39	60	7/8	3/8

XR 12 Split System Cooling — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
2TTR2018A1000A	200-230/1/60	18	.051	26	29	26	171		10	15	5/8	1 1/4
2TTR2024A1000A	200-230/1/60	24	.057	29	29	26	187		11	15	3/4	5/16
2TTR2030A1000A	208-230/1/60	30	.065	29	29	26	180		15	25	3/4	5/16
2TTR2036A1000A	208-230/1/60	36	.071	33	29	26	195		19	30	7/8	3/8
2TTR2042A1000A	208-230/1/60	42	.077	33	33	30	228		24	40	7/8	3/8
2TTR2048A1000A	208-230/1/60	48	.086	37	33	30	247		26	45	1 1/8	3/8
2TTR2060A1000A	208-230/1/60	60	.095	37	33	30	270		38	60	1 1/8	3/8

XR 12 Split System Cooling — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound** Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
4TTR2018A1000A	200-230/1/60	18	.049	33	33	30	215	77	10	15	1/2	1/4
4TTR2024A1000A	200-230/1/60	24	.053	33	33	30	219	78	13	20	5/8	5/16
4TTR2030A1000A	208-230/1/60	30	.059	33	33	30	218	74	20	30	3/4	5/16
4TTR2036A1000A	208-230/1/60	36	.065	33	33	30	231	77	21	35	3/4	3/8
4TTR2042A1000A	208-230/1/60	42	.071	37	33	30	243	78	25	40	3/4	3/8
4TTR2048A1000A	208-230/1/60	48	.077	41	33	30	260	79	31	50	7/8	3/8
4TTR2060A1000A	208-230/1/60	60	.083	33	37	34	283	81	36	60	7/8	3/8

* Information subject to change. Please confirm with current Product Data/Service Facts for current factory production.

** Rated in accordance with ARI Standard 270, section 5.3.6.

RESIDENTIAL RANGE



Split System Cooling

Single Phase 1.5 - 5 T.R.

Features	XL13i (4TTX3)	XL 14i (4TTX4)	XR 12 (2TTR2)	XR 12 (4TTR2)
• SEER's up to	13.00	15.00	13.00	13.00
• 2-speed fan	✓	✓	—	—
• Climatuff® compressor	✓	✓	✓	✓
• Spine Fin™ coil	✓	✓	✓	✓
• Unique powder paint for superior appearance and weather protection	✓	✓	—	—
• Factory supplied charge of R-410A	✓	✓	—	✓
• Factory supplied charge of HCFC-22	—	—	✓	—
• WeatherGuard™ II top shields unit	✓	✓	—	—
• DuraTuff™ base, fast complete drain, weatherproof	✓	✓	✓	✓
• WeatherGuard™ fasteners	✓	✓	✓	✓
• XL seacoast shield	✓	✓	—	—
• Industry leading appearance with enhanced consumer ques	✓	✓	✓	✓
• New tarpaulin gray cabinet with anthracite gray top and base	✓	✓	✓	✓
• Sound ratings as low as 72 db	✓	✓	—	—
• Multi-stage fan for quiet operation	✓	✓	—	—
• Quick-Sess™ cabinet, service access & refrigerant connections with full coil protection	✓	✓	✓	✓
• Glossy corrosion resistant finish	✓	✓	✓	✓
• High/low pressure & temperature protection	✓	✓	✓	✓
• High pressure switch	✓	✓	—	✓
• All models have designed startability	✓	✓	✓	✓
• 018, 024, 060 ships with factory installed start kit	✓	✓	—	✓
• Liquid line filter-drier	✓	✓	✓	✓
• Comfort "R"™ mode	✓	✓	✓	✓
• Easy single side service	✓	✓	✓	✓
• Multi-use liquid and suction line service valves	✓	✓	✓	✓
• Easy top & fan removal	✓	✓	✓	✓
• Full length control and service valve cover	✓	✓	✓	✓
• SureFast™ seams louver panel removed	✓	✓	✓	✓
• Extended warranties available	✓	✓	✓	✓
• S.E.E.T. design testing	✓	✓	✓	✓
• Low ambient to 40° F with AY28X079, 30° F, with thermal expansion valve	✓	✓	✓	✓
Optional Accessories				
AY28X079	Evaporator defrost control kit	✓	✓	✓
BAY24X045	Indoor fan delay relay kit	✓	✓	✓
BAYECMT001	Extreme Condition Mounting Kit	✓	✓	✓
BAYKSKT260	Quick start kit (2¼ - 4 ton)	✓	✓	✓
BAYSEAC001	Seacoast Kit	—	✓	✓
Thermostats				
AY28X092	1-Stage Heat/1-Stage Cool (Horiz.)	✓	✓	✓
BAY28X182 ⁴	1-Stage Heating/Cooling	✓	✓	✓
BAY28X183 ⁴	2-Stage Heating/Cooling	✓	✓	✓
BAY28X185 ³	Subbase (Manual Changeover)	✓	✓	✓
BAY28X190	Locking Thermostat Cover	✓	✓	✓
BAYSTAT304	Cooling Only With Fan Switch	✓	✓	✓
BAYSTAT305	Heat/Cool (Vert.)	✓	✓	✓
TAYASCT501A ²	5 minute delay relay	✓	✓	✓
TAYSENS100A ¹	Outdoor Temp. Sensor	✓	✓	✓
TAYSTAT241	Manual 2 Stg Htg/1 Clg	✓	✓	✓
TAYSTAT250B	Outdoor Thermostat	✓	✓	✓
TAYSTAT300C	XT300C 7 Day Programmable	✓	✓	✓
TAYSTAT302C	XT302C 7 Day Programmable	✓	✓	✓
TAYSTAT340	Prog., 5/2 Day, Manual 1Htg (Elec./Gas)/1Clg	✓	✓	✓
TAYSTAT350	Prog., 5/2 Day, Manual, 2 Htg (Gas)/1Clg	✓	✓	✓
TAYSTAT370	Electronic, 1Htg (Gas)/1Clg(Non Prog.)	✓	✓	✓
TAYSTAT371 ³	Electronic, 1Htg (Elec.)/1Clg(Non Prog.)	✓	✓	✓
TAYSTAT380	Electronic, 2 Htg (Gas)/1 Clg (Non Prog.)	✓	✓	✓

¹ Used with TAYSTAT300C, TAYSTAT302C.

² Not for use with programmable thermostats.

³ Specifically designed for electric heat applications (instant on fan).

⁴ Requires Subbase.



TTA

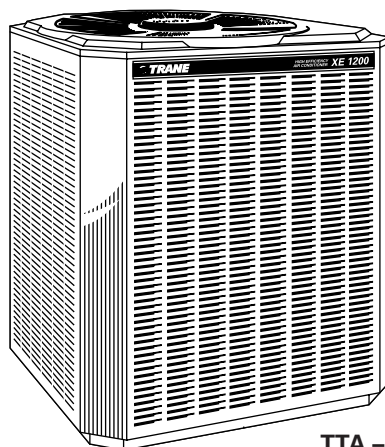


2.5 - 6.25 T.R.



TRANE®

Split System Cooling Three Phase



**TTA – 2½
THROUGH 6 TONS**

TTA Split System Cooling — Three Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
TTA030C300A	200/230/3/60	30	.067	24	28	25	161	80	14	20	3/4	5/16
TTA036D300A	200/230/3/60	36	.071	24	28	25	164	80	18	25	7/8	3/8
TTA042D300B	200/230/3/60	42	.080	33	28	25	192	78	18	30	7/8	3/8
TTA048D300A	200/230/3/60	48	.083	29	33	29	213	78	19	30	1 1/8	3/8
TTA060D300A	200/230/3/60	60	.092	41	33	29	248	79	26	40	1 1/8	3/8
TTA072D300A	200/230/3/60	72	TXV	37	39	35	276	83	27	45	1 1/8	3/8
TTA030C400A	460/3/60	30	.067	24	28	25	161	80	7	15	3/4	5/16
TTA036D400A	460/3/60	36	.071	24	28	25	164	80	10	15	7/8	3/8
TTA042D400B	460/3/60	42	.080	33	28	25	192	78	10	15	7/8	3/8
TTA048D400A	460/3/60	48	.083	29	33	29	213	78	9	15	1 1/8	3/8
TTA060D400A	460/3/60	60	.092	41	33	29	248	79	14	20	1 1/8	3/8
TTA072D400A	460/3/60	72	TXV	37	39	35	276	83	14	20	1 1/8	3/8

RESIDENTIAL RANGE

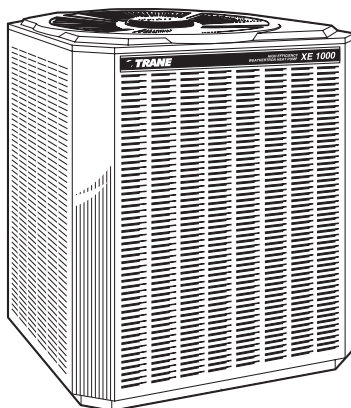


TWR / TWZ

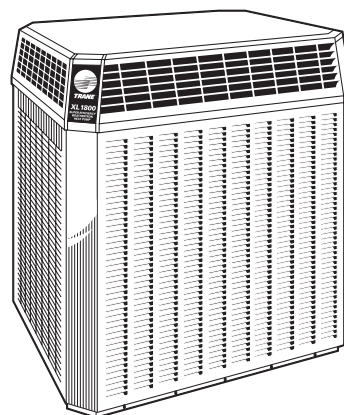


1 - 5 T.R.

Split System Heat Pumps Single Phase



XE 1000



XL 1800

XE 1000 Split System Heat Pump — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
TWR012C100A	200/230/1/60	12	.049	25	24	20	146	78	11	15	5/8	1/4
TWR018C100A	200/230/1/60	18	.049	25	24	20	146	78	11	15	5/8	1/4
TWR024C100A	200/230/1/60	24	.055	25	28	25	170	78	16	25	3/4	5/16
TWR030C100A	200/230/1/60	30	.069	33	28	25	187	80	18	30	3/4	5/16
TWR036D100A	208/230/1/60	36	.071	33	28	25	192	80	23	35	7/8	3/8
TWR042C100B	200/230/1/60	42	.080	37	33	29	252	80	28	45	7/8	3/8
TWR048D100A	208/230/1/60	48	.083	33	33	29	240	78	30	50	1 1/8	3/8
TWR060D100A	208/230/1/60	60	.095	37	39	35	301	78	39	60	1 1/8	3/8

XE 1000 Split System Heat Pump — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
TWZ036A100A	200/230/1/60	36	TXV	43	40	36	460	78	22	35	7/8	3/8
TWZ048A100A	200/230/1/60	48	TXV	43	40	36	470	83	25	40	1 1/8	3/8
TWZ060A100A	200/230/1/60	60	TXV	43	40	36	480	83	38	60	1 1/8	3/8

* Information subject to change. Please confirm with current Product Data/Service Facts for current factory production.

Split System Heat Pumps

Single Phase – 1½ through 5 Tons



Features	XL1800 (TWZ)	XE1000 (TWR)
• SEER's up to	17.65	10.90
• HSPF's up to	8.50	7.50
• 2-Speed fan	✓	—
• Compressor sound enclosure	✓	—
• Climatuff® compressor	✓	✓
• Spine Fin™ coil	✓	✓
• Demand defrost control	✓	✓
• Single side service	✓	✓
• Sculpted steel cabinet, full coil protection	✓	✓
• Unique powder paint for superior appearance and weather protection	✓	✓
• Liquid line filter drier	✓	✓
• Braze refrigerant connections	✓	✓
• Multi-use service valves	✓	✓
• Factory supplied charge of HCFC-22	✓	✓
• XL Seacoast Shield	✓	—

Optional Accessories

BAYKSKT250B	Quick start kit	—	1½, 3½ Ton
BAYKSKT252A	Quick start kit	—	3,4-5 Ton
BAY24X045	Indoor fan delay relay kit	—	✓
AY28X084	Evaporator defrost control	✓	✓
TAYASCT501A ¹	5 minute delay relay	✓	✓
BAYCCHT200A ²	Crank Case Heater Kit	—	3-4 Ton
BAYCCHT201A ²	Crank Case Heater Kit	—	5 Ton
BAYISLT100	Rubber isolators (4)	—	✓
BAYINS001	Insulation kit	✓	✓
BAYLEGS001A	Snow Legs	—	✓
BAYSEAC001	Seacoast Kit	—	✓

¹ Do not use with programmable thermostats.

Thermostats

TAYSENS100A ¹	Outdoor Temp. Sensor	✓	✓
TAYSTAT500C	XT 500C Prog., 7 Day, Man/Auto	✓	✓
TAYSTAT540	Prog., 5/2 Day, Manual	—	—
TAYSTAT570	Electronic, 2Htg/1Clg(Non Prog.)	—	✓
BAY28X138A	Automatic changeover	—	✓
BAY28X153A	3-2 H/P stat Electro Mech	✓	—
BAYSTAT038A	Programmable	✓	—
BAYSTAT239A	Manual changeover	—	✓
BAYSTAT240A	Manual changeover	—	✓
TAYSTAT250B	Outdoor thermostat	✓	✓
BAY28X190	Locking Thermostat cover	✓	✓
BAYSTAT253	Humidistat	✓	—
BAYSENS024A ³	Outdoor Temperature Sensor	✓	—
BAYSENS025A ³	Remote Temperature Sensor	✓	—

¹ Used with TAYSTAT500C.

² When field inner connecting lines exceed the standard 60 linear feet of length consult refrigerant piping software (Pub. No. 32-3312-01).

³ Used with BAYSTAT037A, 038A

RESIDENTIAL RANGE



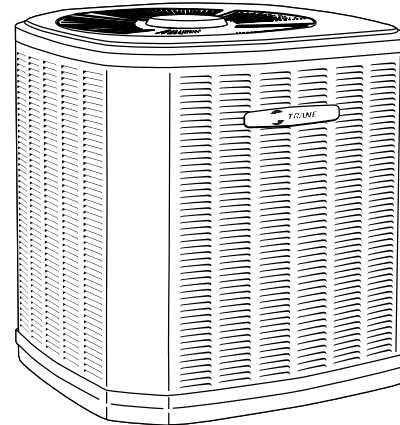
2TWR
R22 1.5 - 5 T.R.

Features :

- **Climatuff®** compressor
- Efficiency up to 13.0 SEER and 9.50 HSPF
- All aluminum **Spine Fin™** coil
- **DuraTuff™** base, fast complete drain, weatherproof
- **WeatherGuard™** fasteners
- New appearance with enhanced consumer cues
- New tarpaulin gray cabinet with anthracite gray base
- Low sound ratings
- **Quick-Sess™** cabinet, service access and refrigerant connections with full coil protection
- Demand Defrost Control with Diagnostics
- Corrosion resistant finish
- High/low pressure & temperature protection
- All models have designed startability
- 018,024 ship with start kit
- Liquid line filter-drier
- **Comfort™R™** mode approved
- Easy single side service
- Multi-use liquid and suction line service valves
- Easy top & fan removal
- Full length control and service valve cover
- **SureFast™** seams louver panel removal
- HCFC-22 refrigerant
- Compressor sump heat on 018, 024, 048, 060 models
- **Extended warranties available**
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 55° F as shipped
- Low ambient cooling to 30° F with EDC accessory AY28X079 and TXV
- Low ambient to 40° F with EDC accessory AY28X079, 30° F with TXV

XR 12 Weathertron® Split System Heat Pump

NEW!



Specifications: 1 Phase

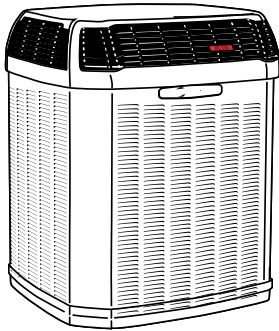
Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Uncrated Dimensions (in)			Shipping Weight
			H	W	D	
2TWR2018A1000A	200/230/1/60	18	26	29	26	176
2TWR2024A1000A	200/230/1/60	24	29	29	26	191
2TWR2030A1000A	208/230/1/60	30	29	29	26	187
2TWR2036A1000A	208/230/1/60	36	33	33	30	233
2TWR2042A1000A	208/230/1/60	42	33	33	30	229
2TWR2048A1000A	208/230/1/60	48	37	33	30	256
2TWR2060A1000A	208/230/1/60	60	41	37	34	316

Accessories:

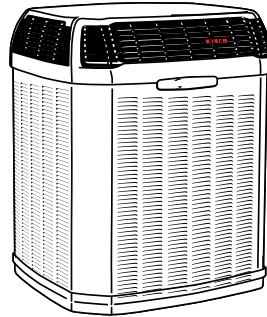
Model Number	Description	Used With	Shipping Weight
TAYSTAT500C	XT 500C Elec. Setback Thermostat	All Heat Pump Models	2
TAYSENS100A	Outdoor Temp. Sensor	TAYSTAT500C	1
TAYSTAT540	Prog., 5/2 Day, Manual	All Heat Pump Models	1
TAYSTAT570	Electronic, 2 Htg/1 Clg (Non Prog.)	All Heat Pump/Gas Models	1
BAY28X138A	Auto Changeover Thermostat	All Heat Pump Models	1
BAYSTAT239A	Manual Changeover Thermostat	All Heat Pump Models	1
BAY28X190	Locking Thermostat Cover	Room Thermostats	2
BAYSTAT253	Humidistat	All Heat Pump Models	1
TAYSTAT250B	Outdoor Thermostat	All Heat Pump Models	1
BAYLEGS002	Snow Legs - Base and Cap 4" High	All Heat Pump Models	1
BAYLEGS003	4" Extension	BAYLEGS002	1
AY28X084	Evap. Defrost Control Kit	All Heat Pump Models	1
BAY24X045	ID Fan Delay Relay Kit	All Heat Pump Models	1
TAYASCT501A ¹	5 Minute Delay Relay	All Heat Pump Models	1
BAYKSKT260	Start Kit	2.5 - 4 Ton Models	1
BAYECMT001	Extreme Conditions Mounting Kit	All Heat Pump Models	2
BAYSEAC001	Seacoast Kit	All Heat Pump Models	1

¹ Not for use with programmable thermostats.

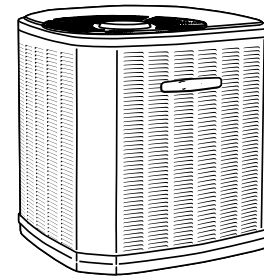
Split System Heat Pumps Single Phase



XL13i



XL14i



XR 12

XL 13i Split System Heat Pump — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
4TWX3018A1000A	200-230/1/60	18	.047	40	33	30	235	74/76	10	15	1/2	1/4
4TWX3024A1000A	200-230/1/60	24	.053	40	33	30	239	76/76	14	20	5/8	5/16
4TWX3030A1000A	208-230/1/60	30	.059	40	33	30	249	72/74	20	30	3/4	5/16
4TWX3036A1000A	208-230/1/60	36	.063	48	33	30	272	72/74	31	35	3/4	3/8
4TWX3042A1000A	208-230/1/60	42	.069	48	33	30	278	76/76	26	45	3/4	3/8
4TWX3048A1000A	208-230/1/60	48	.075	42	37	34	295	74/76	30	50	7/8	3/8
4TWX3060A1000A	208-230/1/60	60	.086	46	37	34	328	76/78	36	60	7/8	3/8

XL 14i Split System Heat Pump — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
4TWX4018A1000A	200-230/1/60	18	.047	40	33	30	224	76/76	10	15	1/2	1/4
4TWX4024A1000A	200-230/1/60	24	.053	48	33	30	239	78/78	13	20	5/8	5/16
4TWX4030A1000A	208-230/1/60	30	.059	48	33	30	242	76/74	20	30	3/4	5/16
4TWX4036A1000A	208-230/1/60	36	.065	46	37	34	259	74/72	21	35	3/4	3/8
4TWX4042A1000A	208-230/1/60	42	.071	50	37	34	274	78/76	25	40	3/4	3/8
4TWX4048A1000A	208-230/1/60	48	.077	50	37	34	280	78/75	30	50	7/8	3/8
4TWX4060A1000A	208-230/1/60	60	.083	50	37	34	318	78/78	36	60	7/8	3/8

XR 12 Split System Heat Pump — Single Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
4TWR2018A1000A	200-230/1/60	18	.047	33	33	30	221	77	10	15	1/2	1/4
4TWR2024A1000A	200-230/1/60	24	.053	33	33	30	225	78	14	20	5/8	5/16
4TWR2030A1000A	208-230/1/60	30	.059	33	33	30	234	74	20	30	3/4	5/16
4TWR2036A1000A	208-230/1/60	36	.063	33	33	30	257	77	21	35	3/4	3/8
4TWR2042A1000A	208-230/1/60	42	.069	41	33	30	262	79	26	45	3/4	3/8
4TWR2048A1000A	208-230/1/60	48	.075	33	37	34	271	79	30	50	7/8	3/8
4TWR2060A1000A	208-230/1/60	60	.086	41	37	34	302	81	36	60	7/8	3/8

* Information subject to change. Please confirm with current Product Data/Service Facts for current factory production.

** Rated in accordance with ARI Standard 270, section 5.3.6.



Split System Heat Pumps

Single Phase 1.5 - 5 T.R.

Features	XL13i (4TWX3)	XL 14i (4TWX4)	XR 12 (4TWR2)
• SEER's up to	13.00	15.00	13.00
• HSPF's up to	9.25	9.85	9.25
• Climatuff® compressor	✓	✓	✓
• All aluminum Spine Fin™ coil	✓	✓	✓
• WeatherGuard™ II top shields unit	✓	✓	—
• DuraTuff™ base, fast complete drain, weather proof	✓	✓	✓
• WeatherGuard™ fasteners	✓	✓	✓
• XL seacoast shield	✓	✓	—
• Industry leading appearance with enhanced consumer cues	✓	✓	✓
• New tarpaulin gray cabinet with anthracite gray top and base	✓	✓	✓
• Sound ratings as low as 72db, 78db on 5 ton	✓	✓	—
• Multi-stage fan for quiet operation	✓	✓	✓
• Quick-Sess™ cabinet, service access and refrigerant connections with full coil protection	✓	✓	✓
• Demand Defrost Control with Diagnostics	✓	✓	✓
• Glossy corrosion resistant finish	✓	✓	✓
• High/low pressure & temperature protection	✓	✓	✓
• High pressure switch	✓	✓	✓
• All models have designed startability	✓	✓	✓
• 018,024,060 ship with start kit	✓	✓	✓
• Liquid line filter-drier	✓	✓	✓
• Comfort™R™ mode approved	✓	✓	✓
• Easy single side service	✓	✓	✓
• Multi-use liquid and suction line service valves	✓	✓	✓
• Easy top & fan removal	✓	✓	✓
• Full length control and service valve cover	✓	✓	✓
• SureFast™ seams louver panel removal	✓	✓	✓
• Factory supplied charge of R-410A	✓	✓	✓
• Compressor sump heat	✓	✓	✓
• SEET Design testing	✓	✓	✓
• 100% line run test	✓	✓	✓
• Low ambient to 40°F with AY28X079, 30°F with TXV	✓	✓	✓

Optional Accessories

AY28X084	Evaporator defrost control	✓	✓	✓
BAY24X045	Indoor fan delay relay kit	—	—	✓
BAYKSKT260	Quick start kit (2-1/2 - 4 Ton)	✓	✓	✓
BAYLEGS002A	Snow Legs Base and Cap 4" High	✓	✓	✓
BAYLEGS003A	4" Extension	✓	✓	✓
BAYECMT001	Extreme Conditions Mounting Kit	✓	✓	✓
TAYASCT501A ¹	5 minute delay relay	✓	✓	✓
BAYSEAC001	Seacoast Kit	—	—	✓

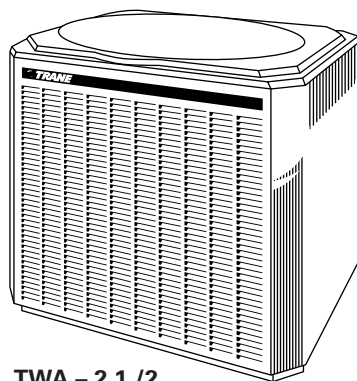
¹ Do not use with programmable thermostats.

Thermostats

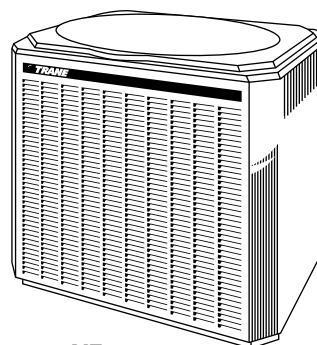
BAY28X138A	Automatic changeover	✓	✓	✓
BAY28X190	Locking Thermostat cover	✓	✓	✓
BAYSTAT239A	Manual changeover Thermostat	✓	✓	✓
BAYSTAT253	Humidistat	✓	✓	✓
TAYSENS100A ¹	Outdoor Temp. Sensor	✓	✓	✓
TAYSTAT250B	Outdoor Thermostat	✓	✓	✓
TAYSTAT500C	XT 500C Prog., 7 Day, Man/Auto Thermostat	✓	✓	✓
TAYSTAT540	Prog., 5/2 Day, Manual Thermostat	✓	✓	✓
TAYSTAT570	Electronic, 2Htg/1Clg(Non Prog.) Thermostat	✓	✓	✓

¹ Used with TAYSTAT500C.

Split System Heat Pumps Three Phase



**TWA - 2 1/2
THROUGH 6 TONS**



XE 1200

TWA Split System Heat Pump — Three Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D					OD Gas	OD Liq.
TWA030C300A	200-230/3/60	30	.067	33	28	25	207	80	15	25	3/4	5/16
TWA036D300A	200-230/3/60	36	.071	33	28	25	193	80	15	25	7/8	3/8
TWA042C300A	200-230/3/60	42	.080	33	33	29	246	80	19	30	7/8	3/8
TWA048D300A	200-230/3/60	48	.083	33	33	29	235	78	19	30	1 1/8	3/8
TWA060D300A	200-230/3/60	60	.095	37	39	35	298	78	25	40	1 1/8	3/8
TWA072C300A	200-230/3/60	72	TXV	45	39	35	395	84	28	45	1 1/8	3/8
TWA030C400A	460/3/60	30	.067	33	28	25	207	80	7	15	3/4	5/16
TWA036D400A	460/3/60	36	.071	33	28	25	193	80	7	15	7/8	3/8
TWA042C400A	460/3/60	42	.080	33	33	29	246	80	9	15	7/8	3/8
TWA048D400A	460/3/60	48	.083	33	33	29	235	78	10	15	1 1/8	3/8
TWA060D400A	460/3/60	60	.095	37	39	35	298	78	12	20	1 1/8	3/8
TWA072C400A	460/3/60	72	TXV	45	39	35	395	84	14	20	1 1/8	3/8

¹ FCCV located in Indoor Section.

² Vibration Isolators not included.

XE 1200 Split System Heat Pump — Three Phase

Model Number	Power Supply	Nom. Cap. Cooling (MBH)	Required FCCV Size	Uncrated Dimensions (in)			Mfg. Plant	Shipping Weight (lbs.)	Sound Rating	MCA*	Max. Fuse*	Line Size	
				H	W	D						OD Gas	OD Liq.
TWP030D300A	200/230/3/60	30	.067	33	33	29	TY	217	78	13	20	3/4	5/16
TWP036C300A	200/230/3/60	36	.077	37	39	35	TY	296	80	17	25	7/8	3/8
TWP042C300A	200/230/3/60	42	.080	37	39	35	TY	302	80	17	25	7/8	3/8
TWP048C300A	200/230/3/60	48	.086	37	39	35	TY	311	80	20	30	1 1/8	3/8
TWP060D300A	200/230/3/60	60	.095	37	39	35	TY	320	82	24	40	1 1/8	3/8
TWP030D400A	460/3/60	30	.067	33	33	29	TY	217	78	7	15	3/4	5/16
TWP036C400A	460/3/60	36	.077	37	39	35	TY	296	80	8	15	7/8	3/8
TWP042C400A	460/3/60	42	.080	37	39	35	TY	302	80	9	15	7/8	3/8
TWP048C400A	460/3/60	48	.086	37	39	35	TY	311	80	10	15	1 1/8	3/8
TWP060D400A	460/3/60	60	.095	37	39	35	TY	320	82	12	20	1 1/8	3/8



AIR COOLED SPLIT SYSTEMS

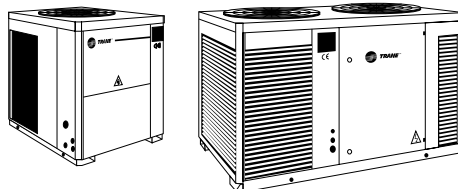


LIGHT COMMERCIAL RANGE

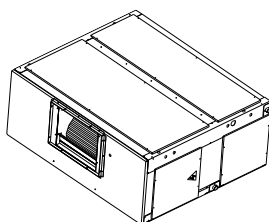
Air-cooled split systems

Air-cooled condensing units

TTA/TWA

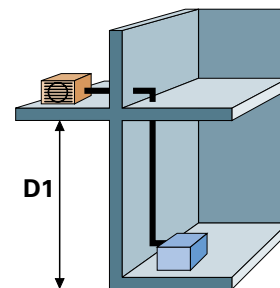
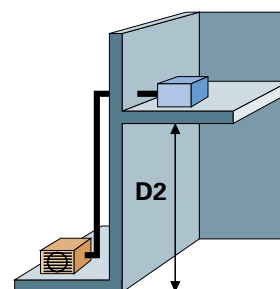
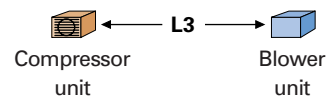


Blower units



Outdoor unit	Max. length (m)	Max. level difference (m)		Line diameter (inches)	
	L3	D2	D1	Gas	Liquid
TTA 075	40	14	24	1 ¹ / ₈	1 ¹ / ₂
	40	18	24	1 ¹ / ₈	5 ⁵ / ₈
TTA 090	40	14	24	1 ¹ / ₈	1 ¹ / ₂
	40	18	24	1 ¹ / ₈	5 ⁵ / ₈
TTA 100	24	10	24	1 ³ / ₈	1 ¹ / ₂
	40	18	24	1 ³ / ₈	5 ⁵ / ₈
TTA 120	18	10	18	1 ³ / ₈	1 ¹ / ₂
	40	18	24	1 ³ / ₈	5 ⁵ / ₈
TTA 125	18	10	18	1 ³ / ₈	1 ¹ / ₂
	40	18	24	1 ³ / ₈	5 ⁵ / ₈
TTA 150	40	14	24	1 ¹ / ₈	1 ¹ / ₂
	40	18	24	1 ¹ / ₈	5 ⁵ / ₈
TTA 155	24	10	24	1 ³ / ₈	1 ¹ / ₂
	40	18	24	1 ³ / ₈	5 ⁵ / ₈
TTA 180	24	10	24	1 ³ / ₈	1 ¹ / ₂
	40	18	24	1 ³ / ₈	5 ⁵ / ₈
TTA 200	24	10	24	1 ³ / ₈	1 ¹ / ₂
	40	18	24	1 ³ / ₈	5 ⁵ / ₈
TTA 240	18	10	18	1 ³ / ₈	1 ¹ / ₂
	40	18	24	1 ³ / ₈	5 ⁵ / ₈
TWA 075	40	14	10	1 ¹ / ₈	1 ¹ / ₂
	40	18	18	1 ¹ / ₈	5 ⁵ / ₈
TWA 090	40	14	10	1 ¹ / ₈	1 ¹ / ₂
	40	18	18	1 ¹ / ₈	5 ⁵ / ₈
TWA 100	24	10	10	1 ³ / ₈	1 ¹ / ₂
	40	18	18	1 ³ / ₈	5 ⁵ / ₈
TWA 120	18	10	10	1 ³ / ₈	1 ¹ / ₂
	40	18	18	1 ³ / ₈	5 ⁵ / ₈
TWA 150	40	14	10	1 ¹ / ₈	1 ¹ / ₂
	40	18	18	1 ¹ / ₈	5 ⁵ / ₈
TWA 155	24	10	10	1 ³ / ₈	1 ¹ / ₂
	40	18	18	1 ³ / ₈	5 ⁵ / ₈
TWA 180	24	10	10	1 ³ / ₈	1 ¹ / ₂
	40	18	18	1 ³ / ₈	5 ⁵ / ₈
TWA 200	24	10	10	1 ³ / ₈	1 ¹ / ₂
	40	18	18	1 ³ / ₈	5 ⁵ / ₈
TWA 240	18	10	10	1 ³ / ₈	1 ¹ / ₂
	40	18	18	1 ³ / ₈	5 ⁵ / ₈

Maximum line lengths and diameters





SPLIT SYSTEMS



7.5 - 20 TR



Large capacity indoor and outdoor units.

For use within the retail, service, office warehouse and industrial sectors. For buildings from 200 to 2000m².

The air distribution can be carried out directly via the indoor unit or from a distance via a network of ducts.

The solutions vary depending on :

- the space available for the indoor unit : horizontal cabinet, vertical cabinet or ceiling installation,
- the space available for the outdoor unit : floor installation, installation at a height or in an indoor space.



TTA/TWA 075 - 120

FOR WHOM? FOR WHAT?

Light commercial applications (supermarkets, offices, warehouses...)

Flexibility of our blower units

Scroll technology on our axial fan condensing units

Flexibility of installation



TWE 150 - 240

TRANE'S ADVICE

Ideal units for existing duct networks thanks to its flexibility on airflow and static pressure.

Perfect alternative when you can not have a roof application

LIGHT COMMERCIAL RANGE

Main features :

TWE indoor unit :

- Convertible cabinet, vertical or horizontal.
- Adjustable speed pulley-belt drive centrifugal fan motor.
- Aluminium fin coil with copper-tubes.
- Galvanised steel panels.
- Removable condensate drain pan.
- Throwaway filters as standard.
- Thermal protection of the fan motor winding.
- Expansion valve factory installed.
- Check valves for heat pump applications
- Expansion valve

TTA/TWA outdoor units :

- 1 cooling circuit (size 075 to 120).
- 2 cooling circuits (sizes 150 to 240).
- Scroll compressor(s).
- Internal thermal protection of the fan and compressor motor windings.
- Crankcase heater.
- Liquid line filter drier.
- Direct drive axial fan motor.
- Anti-recycle timer (compressor).
- Stop valves (gas and liquid) with brazed connections.
- Aluminium fin coil and copper tubes.

Accessories :

TWE indoor unit :

- Supplemental heaters: electric, hot water and steam.
- Low static drive kit.
- Oversized drive kit.

TTA/TWA outdoor units :

- Low ambient speed controller (TTA only).
- Black epoxy fins.

Control :

- 24 V electro-mechanical control.
- Digital display electronic wall thermostats.
- TAYSTAT 570, non programmable.
- BAYSTAT 038 programmable
- Remote sensor.

Maximum line lengths and diameters :

- See page 36.

Split System

TTA/TWA
075 - 120



TWE



THERMOSTAT

TTA/TWA
150 - 240



Operating limits :

TWE + TTA/TWA	Cooling mode	Heating mode
Min. outdoor air temperature	+ 15°C standard - 15°C with speed controller	- 15°C
Max. outdoor air temperature	+ 45°C	+ 20°C

TWA General Data — Heat Pumps - 60 Hz

	7½ Ton Single Compressor TWA090A3, A4, AW	10 Ton Single Compressor TWA120A3, A4, AW	15 Ton Dual Compressor TWA180B3, B4, BW	20 Ton Dual Compressor TWA240B3, B4, BW
Cooling Performance¹				
Gross Cooling Capacity				
Matched Air Handler (MBH)	91	124	182	240
Heat Pump Only ² (MBH)	91	124	182	240
ARI Net Cooling Capacity (MBH)	89	120	176	234
EER ⁴				
Matched Air Handler (MBH)	10.1	10.1	10.1	9.3
Heat Pump Only ² (MBH)	11.5	11.1	11.7	10.3
System/Condensing Unit Poer (kW)	8.70/7.95	11.91/11.07	17.29/15.59	24.99/23.20
Heating Performance				
ARI Heating with Matched Air Handler				
High Temperature Capacity (MBH)	87	122	168	234
System kW/COP	7.68/3.3	10.82/3.2	16.10/3.1	22.42/3.1
Low Temperature Capacity (MBH)	55	80	106	154
System kW/COP	6.73/2.4	9.62/2.4	14.16/2.2	19.54/2.3
Compressor				
No./Type	1/Trane 3-D® Scroll	1/Trane 3-D® Scroll	2/Trane 3-D® Scroll	2/Trane 3-D® Scroll
Sound Rating (BELS)⁵	8.8	8.8	8.8	8.8
System Data⁶				
No. Refrigerant Circuits	1	1	1	1
Suction Line (in.) OD	1⅜	1⅜	1⅜	1⅜
Liquid Line (in.) OD	½	½	½	½
Outdoor Fan Type				
No. Used/Diameter (in)	Propeller 1/26	Propeller 1/28	Propeller 2/26	Propeller 2/28
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM	5890	8200	11,780	16,240
No. Motors/HP	1/50	1/1.00	2/50	2/1.00
R-22 Refrigerant Charge (Field Supplied) (Lbs. of R-22) ⁷	18.00	31.5	36.00	48.50

Notes: (1) Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Certified in accordance with the Unitary Large Equipment certification program, which is based on ARI Standard 340/360-00. (2) Condensing Unit Only Gross Cooling Capacity rated at 45° F saturated suction temperature and at 95° F ambient. (3) ARI Net Cooling Capacity is calculated with matched blower coil and 25 ft. of 1⅜", ½" OD interconnecting tubing. (4) EER is rated at ARI conditions and in accordance with DOE test procedures. (5) Sound Rating shown is tested in accordance with ARI Standard 270 or 370. (6) Refer to refrigerant piping applications manual for line sizing and line length. (7) Refrigerant (operating) charge is for condensing unit (all circuits) with matching blower coils and 25 ft. of interconnecting refrigerant lines. All units are supplied with a small nitrogen holding charge only.

TWA General Data — Heat Pumps - 50 Hz

	TWA075A	TWA100A	TWA155B	TWA200B
Cooling Performance¹				
Gross Cooling Capacity				
Matched Air Handler, MBH (kW)	82 (23.97)	109 (31.97)	166 (48.57)	216 (63.24)
Heat Pump Only ² , MBH (kW)	82 (23.97)	105 (30.75)	161 (47.04)	209 (61.18)
ARI Net Cooling Capacity ³	80 (23.35)	105 (30.75)	160 (46.74)	196 (61.18)
System Power kW	7.36	10.32	14.98	20.61
Heat Pump Only Power kW	6.61	9.22	13.20	18.52
Heating Performance				
ARI Heating with Matched Air Handler				
High Temperature Capacity, MBH (kW)	75 (21.82)	106 (31.05)	151 (44.27)	206 (60.26)
Low Temperature Capacity, MBH (kW)	47 (13.84)	69 (20.29)	95 (27.67)	135 (39.66)
Compressor				
Number	1	1	2	2
Type	3D® Scroll	3D® Scroll	3D® Scroll	3D® Scroll
ARI Sound Rating (BELS)⁴	8.8	8.8	8.8	8.8
System Data⁵				
No. Refrigerant Circuits	1	1	2	2
Suction Line, in. (mm) OD	1.375 (34.9)	1.375 (34.9)	1.375 (34.9)	1.375 (34.9)
Liquid Line, in. (mm) OD	0.500 (12.7)	0.500 (12.7)	0.500 (12.7)	0.500 (12.7)
Outdoor Fan Type				
No. Used	Propeller 1	Propeller 1	Propeller/Propeller 2	Propeller/Propeller 2
Diameter, in. (mm)	26.00 (660.4)	28.00 (711)	26.00/26.00 (660.4/660.4)	28.00/28.00 (711/711)
Drive Type	Direct	Direct	Direct/Direct	Direct/Direct
No. Speeds	1	1	1	1
CFM ⁶ , (m³/h)	4700 (7985)	6700 (11382)	9800 (16649)	13400 (22764)
No. Motors	1	1	2	2
Motor HP (kW)	0.33 (.24)	0.75 (.56)	0.33 (.24)	0.75 (.56)
R-22 Refrigerant Charge, lb⁷ (kg)	18.0 (8.16)	24.25 (11.0)	36.0 (16.32)	48.5 (22.0)

Notes: (1) Cooling Performance is rated at 95°F (35°C) ambient, 80°F (26.7°C) entering dry bulb, 67°F (19.4°C) entering wet bulb and nominal cfm listed. ARI rating cfm is 350 cfm/ton for this product. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Rated accordance with ARI Standard 210. (2) Condensing Unit Only Gross Cooling Capacity rated at 45°F (7.6°C) saturated suction temperature and at 95°F (35°C) ambient. (3) ARI Net Cooling Capacity is calculated with matched blower coil and 25 ft (7.6 m) of 1.375, 0.500 OD interconnecting tubing. EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures. Integrated Part Load Value is based on ARI Standard 210/240/340. Units are rated at 80°F (26.7°C) ambient, 80°F (26.7°C) entering dry bulb, and 67°F (19.4°C) entering wet bulb at ARI rated cfm. (4) ARI Sound Rating is rated in accordance with ARI Standard 270. (5) System Data based on maximum linear length 80 ft (26.7 m) Maximum lift: suction 60 ft (18.3 m) liquid 60 ft (18.3 m) For greater lengths, refer to refrigerant piping applications manual. (6) Outdoor Fan cfm is rated with standard air-dry coil outdoor. (7) Refrigerant (operating) charge is for condensing unit (all circuits) with matching blower coils and 25 ft (7.6 m) of interconnecting refrigerant lines.

LIGHT COMMERCIAL RANGE



60 Hz Condensing Units	7½ Ton	10 Ton	10 Ton	10 Ton	12½ Ton	15Ton	15Ton	20 Ton
Compressors:	Single	Single	Dual	n	Dual	Dual	Manifolded	Dual
Model: TTA	090A3, A4	120A3, A4	120B3, B4	120C3, C4	150B3, B4	180B3, B4	180C3, C4	240B3, B4
Cooling Performance¹								
Gross Cooling Capacity (MBH)								
Matched Air Handler	92	128	126	126	148	182	182	246
Condensing Unit Only ²	92	128	126	126	148	182	182	246
ARI Net Cooling Capacity ³	89	124	122	122	144	176	176	238
EER ⁴								
Matched Air Handler	10.3	10.3	10.3	10.3	9.8	9.7	9.7	9.7
System kW/Condensing Unit kW	8.61/7.90	12.11/11.25	11.89/10.94	11.9/11.1	14.70/13.43	18.18/16.43	18.16/16.35	24.61/22.17
Compressor								
No./Make	1/3-D®	1/3-D®	2/Climatuff®	2/Copeland	2/Climatuff®	2/3-D®	2/3-D®	2/3-D®
Type	Scroll	Scroll	Scroll	Manifolded Scroll	Scroll	Scroll	Manifolded Scroll	Scroll
No. Motors/HP	1/7.50	1/10.00	2/5.00	2/5.00	2/6.25	2/7.50	2/7.50	2/10.00
Sound Rating (BELS)⁶	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
System Data⁷								
No. Refrigerant Circuits	1	1	2	1	2	2	1	2
Suction Line (in.) OD	1 3/8	1 3/8	1 1/8	1 3/8	1 1/8	1 3/8	1 5/8	1 3/8
Liquid Line (in.) OD	½	½	3/8	½	3/8	½	5/8	½
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter (in.)	1/26	1/28	1/28	1/28	2/28	2/26	2/26	2/28
Cfm	5,670	8,120	8,120	8,120	8,120	10,900	11,340	16,120
No. Motors/HP	1/50	1/1.00	1/1.00	1/1.00	1/1.00	2/50	2/50	2/1.00
Refrigerant Charge (Field Supplied)								
(Lbs of R-22) ⁸	16.0	19.0	21.0	20.5	23.6	30.0	28.0	40.0

50 Hz Condensing Units	TTA075A	TTA085A	TTA100A	TTA100B	TTA100C	TTA125B	TTA155B	TTA155C	TTA200B
Cooling Performance¹									
Gross Cooling Capacity									
Matched Air Handler (MBH)	82	91	111	102	108	127	166	160	216
Condensing Unit Only 2 (MBH)	80	91	107	102	108	127	163	155	209
ARI Net Cooling Capacity 3 (MBH)	79	87	107	100	106	123	161	153	209
System Power kW	7.92	8.7	10.66	11.3	9.61	13.1	16.01	15.4	21.40
Condensing Unit Power kW	7.32	7.8	9.76	10.3	9.01	12.1	14.58	14.6	19.39
Compressor									
Number	1	1	1	2	2	2	2	2	2
Type	3-D® Scroll	3-D® Scroll	3-D® Scroll	Climatuff™	Scroll Tandem	Climatuff™	3-D® Scroll	3-D® Scroll	Tandem 3-
D® Scroll									
No. Speeds (each)	1	1	1	1	1	1	1	1	1
No. Motors (each)	1	1	1	1	1	1	1	1	1
Motor HP/kW	6.25/4.7	6.91/5.16	8.33/6.21	4.15/3.1	4.16/3.10	5.20/3.9	6.25/4.7	6.25/4.7	8.33/6.21
ARI Sound Rating (Bels)⁴	8.8	8.8	8.8	9.0	8.8	8.8	8.8	8.8	8.8
System Data⁵									
No. Refrigerant Circuits	1	1	1	2	1	2	2	1	2
Suction Line in./mm OD	1.375/34.9	1.375/34.9	1.375/34.9	1.120/28.5	1.375/34.9	1.375/34.9	1.375/34.9	1.625/41.3	1.375/34.9
Liquid Line in./mm OD	0.500/12.7	0.500/12.7	0.500/12.7	0.375/9.5	0.500/12.7	0.500/12.7	0.500/12.7	0.625/15.9	0.500/12.7
Outdoor Fan Type	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used	1	1	1	1	1	1	2	2	2
Diameter in./mm	26.00/660.4	28.00/711.2	28.00/711.2	28.00/711.2	28.00/711.2	28.00/711.2	26.00/660.4	26.00/660.4	28.00/711.2
Drive Type	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct
CFM ⁶ /m ³ /h	4700/7985	6500/11042	6500/11042	6500/11042	6500/11042	6760/11484	9400/15969	9400/15969	13400/22764
No. Motors	1	1	1	1	1	1	1	1	2
Motor HP/kW	0.33/24	0.75/56	0.75/56	0.75/55	0.75/56	0.75/55	0.33/24	0.33/24	0.75/56
R-22 Refrigerant Charge, lb⁷/kg	13.0/5.90	16.0/7.26	16.0/7.26	18.8/8.5	15.5/7.03	25.2/11.4	26.0/11.8	27.0/12.34	36.0/16.33

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Certified in accordance with the Unitary Large Equipment certification program, which is based on ARI Standard 340/360 or 365-00.
2. Condensing Unit Only Gross Cooling Capacity rated at 45° F saturated suction temperature and at 95° F ambient.
3. ARI Net Cooling Capacity is calculated with matched blower coil and 25 ft. of 1 3/8", 1 1/2" OD interconnecting tubing.
4. EER is rated at ARI conditions and in accordance with DOE test procedures.
5. Integrated Part Load Value is based On ARI Standard 340/360 or 365-00. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at ARI rated cfm.
6. Sound Rating shown is tested in accordance with ARI Standard 270.
7. Refer to refrigerant piping applications manual for line sizing and line length.
8. Refrigerant (operating) charge is for condensing unit (all circuits) with matching blower coils and 25 ft. of interconnecting refrigerant lines. All units are shipped with a small nitrogen holding charge only.

General Data — Air Handlers

	5 Ton			7½ Ton			10 Ton		
	Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit		
Model: TWE	050A	060A1, A3 A4, A	060B1, B3, B4	075A	090A1, A3¹, A	090B1,B3¹	100A	120A1	120A3¹
System Data									
No. Refrigerant Circuits	1	1	2	1	1	2	1	1	1
Suction Line (in.) OD	1 1/8	1 1/8	3/4	1 3/8	1 3/8	1 1/8	1 3/8	1 3/8	1 3/8
Liquid Line (in.) OD	3/8	3/8	5/16	1/2	1/2	3/8	1/2	1/2	1/2
Indoor Coil - Type				Plate Fin					
Tube Size (in.)	.375	.375	.375	.375	.375	.375	.375	.375	.375
Face Area (sq. ft.)	5.0	5.0	5.0	8.1	8.1	8.1	11.2	11.2	11.2
Rows/FPI	3/12	3/12	3/12	3/12	3/12	3/12	4/12	4/12	4/12
Refrigerant Control				Expansion Valve					
Drain Connection Size (in.)	1 PVC	1 PVC	1 PVC	1 PVC	1 PVC	1 PVC	1 PVC	1 PVC	1 PVC
Indoor Fan - Type				Centrifugal					
No. Used/Diameter x Width (in.)	1/12x12	1/12x12	1/12x12	1/15x15	1/15x15	1/15x15	1/15x15	1/15x15	1/15x15
Drive Type/ No. Speeds				Belt/Adjustable					
CFM	1670	2000	2000	2500	3000	3000	325	4000	4000
No. Motors	1	1	1	1	1	1	1	1	1
Motor HP - Standard/Oversized	.75/1.00	.75/1.00	.75/1.00	1.00/1.50	1.50/2.00	1.50/2.00	1.50/2.00	2.00/3.00	2.00/3.00³
Filters -				Throwaway/Yes					
Type/Furnished									
Number	1	1	1	3	3	3	4	4	4
Size Recommended	16x20x1 20x20x1	16x20x1 20x20x1	16x20x1	16x25x1	16x25x1	16x25x1	16x25x1	16x25x1	16x25x1

ARI tested and certified with various heat pumps in accordance with ARI Standard 210/240 or 340/360 or 365-00 certification program. Refer to Performance Data section in this catalog.

NOTES:

1. Ships wired for 208-230/3/60. Field convertible to 460/3/60.
2. TWE060A1 has Motor RPM of 3450 for oversized motor.
3. TWE120A1 does not have an oversized motor option.

General Data — Air Handlers (Continued)

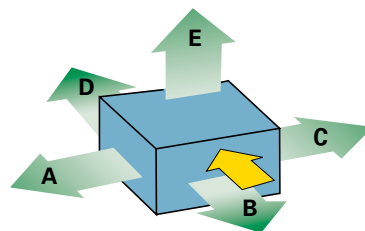
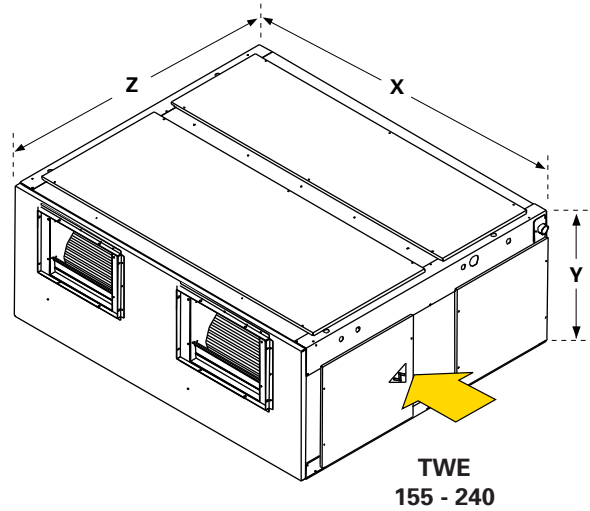
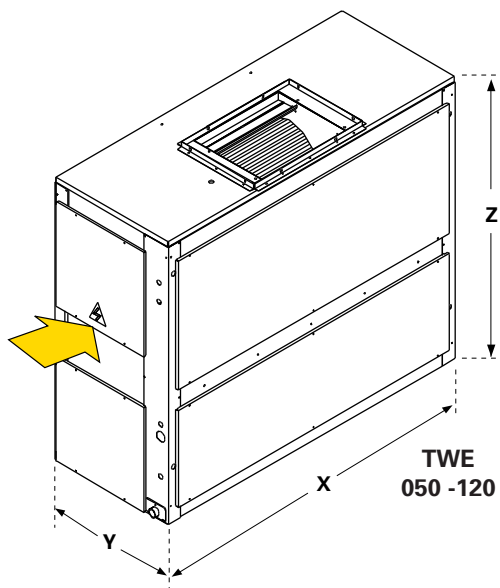
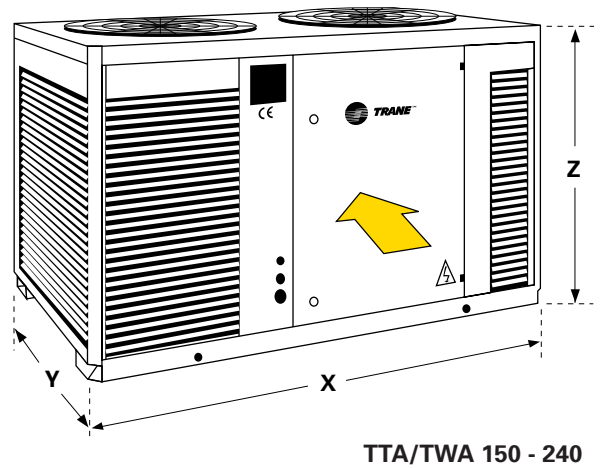
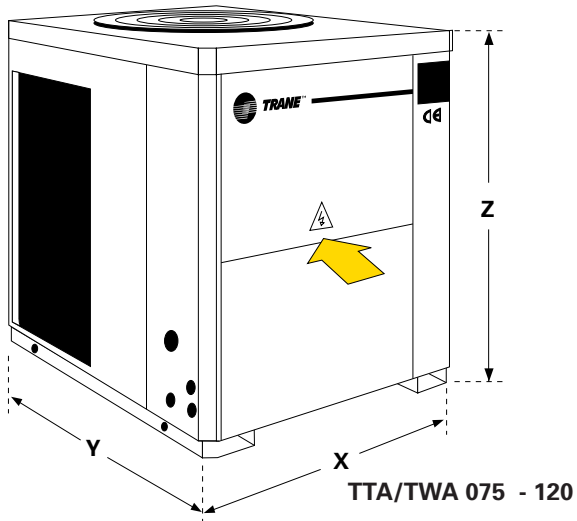
	10 Ton		15 Ton		20 Ton	
	Dual Circuit		Dual Circuit		Dual Circuit	
	TWE100B	TWE120B3¹ TWE120B1	TWE155B	TWE180B3, B4	TWE200B	TWE240B3, B4
System Data						
No. Refrigerant Circuits	2	2	2	2	2	2
Suction Line (in.) OD	1 1/8	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8
Liquid Line (in.) OD	3/8	3/8	1/2	1/2	1/2	1/2
Indoor Coil - Type	Plate Fin	Plate Fin	Plate Fin	Plate Fin	Plate Fin	Plate Fin
Tube Size (in.)	.375	.375	.375	.375	.375	.375
Face Area (sq. ft.)	11.2	11.2	16.3	16.3	21.6	21.6
Rows/FPI	4/12	4/12	3/12	3/12	3/12	3/12
Refrigerant Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Drain Connection Size (in.)	1 PVC	1 PVC	1 PVC	1 PVC	1 PVC	1 PVC
Indoor Fan - Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
No. Used/Diameter x Width (in.)	1/15x15	1/15x15	2/15x15	2/15x15	2/15x15	2/15x15
Drive Type/ No. Speeds	Belt/Adjust	Belt/Adjust	Belt/Adjust	Belt/Adjust	Belt/Adjust	Belt/Adjust
CFM	4000	4000\	5000	6000	66650	8000
No. Motors	1	1	1	1	1	1
Motor HP - Standard/Oversized	2.00/—	2.00/3.00	2.00/3.00	3.00/5.00	3.00/5.00	5.00/7.50
Filters -						
Type/Furnished	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes
(No.) Size Recommended	(4) 16x25x1	(4) 16x25x1	(8) 15x20x2	(8) 15x20x2	(4) 16x25x2 (4) 16x20x2	(4) 16x25x2 (4) 16x20x2

ARI tested and certified with various heat pumps in accordance with ARI Standard 210/240 or 340/360 or 365-00 certification program. Refer to Performance Data section in this catalog.

NOTES:

1. Ships wired for 208-230/3/60. Field convertible to 460/3/60.

LIGHT COMMERCIAL RANGE




Access required to open
the door of the starter panel

TTA/TWA

Outdoor unit			TTA 075	TWA 075	TTA 100	TWA 100	TTA 120	TWA 120
Dimensions	indoor unit (X x Y x Z)	(mm)	1290 x 970 x 450		1290 x 1095 x 655		1290 x 1095 x 655	
	outdoor unit (X x Y x Z)	(mm)	1060 x 950 x 1050		1060 x 950 x 1050		1060 x 1050 x 1050	
Weight	indoor unit	(kg)	83	83	128	128	128	128
	outdoor unit	(kg)	185	190	205	210	221	226
Duct connection (adaptation kit)			1290 x 442 x 402		1290 x 527 x 602			
Accessory Nb & Ø			5 x 315		3 x 315 + 2 x 400			

TWE + TTA (Cooling only)

Indoor unit			TWE 120	TWE 150	TWE 240	TWE 240	TWE 120	TWE 150	TWE 240	TWE 240
Outdoor unit			TTA 120	TTA 150	TTA 200	TTA 240				
Dimensions	indoor unit (X x Y x Z)	(mm)	1638 x 662 x 1372		2045 x 732 x 1752		2376 x 804 x 1824		1638 x 662 x 1372	
	outdoor unit (X x Y x Z)	(mm)	1260 x 1050 x 1050		2200 x 1050 x 1050		1370 x 795 x 1590		2120 x 795 x 1590	
Weight	indoor unit	(kg)	200	309	375	375	200	309	375	375
	outdoor unit	(kg)	221	368	408	424	331	495	535	561
Duct connection			41.1 x 31.75		41.9 x 31.75					
Accessory (Nb)			1		2					

TWE + TWA

Indoor unit			TWE 120	TWE 150	TWE 240	TWE 240	TWE 120	TWE 150	TWE 240	TWE 240
Outdoor unit			TWA 120	TWA 150	TWA 200	TWA 240				
Dimensions	indoor unit (X x Y x Z)	(mm)	1638 x 662 x 1372		2045 x 732 x 1752		2376 x 804 x 1824		1638 x 662 x 1372	
	outdoor unit (X x Y x Z)	(mm)	1260 x 1050 x 1050		2200 x 1050 x 1050		1370 x 795 x 1590		2120 x 795 x 1590	
Weight	indoor unit	(kg)	200	309	375	375	200	309	375	375
	outdoor unit	(kg)	226	380	420	436	336	500	540	566

Minimum clearance (mm)

Outdoor unit	A	B	C	D	E
TTA 075	1000	1000	1000	1000	2500
TTA 100	1000	1000	1000	1000	2500
TTA 120	300	1000	300	1000	-
TTA 150	300	1000	300	1000	-
TTA 200	300	1000	300	1000	-
TTA 240	300	1000	300	1000	-

Outdoor unit	A	B	C	D	E
TWA 075	1000	1000	1000	1000	2500
TWA 100	1000	1000	1000	1000	2500
TWA 120	300	1000	300	1000	-
TWA 150	300	1000	300	1000	-
TWA 200	300	1000	300	1000	-
TWA 240	300	1000	300	1000	-

Features:

- Advanced design for greater efficiency, reliability and flexibility
- Trane 3-D® scroll compressor
- Four system control options on 20 through 60-ton units and three system control options on 80 through 120-ton units, each using solid-state, factory-installed electronics
- Coil frost protection with the VAV system control option on the 20 through 60-ton units
- Remote EVP control option on 80 through 120-ton units

Air-cooled condensing unit with axial fan



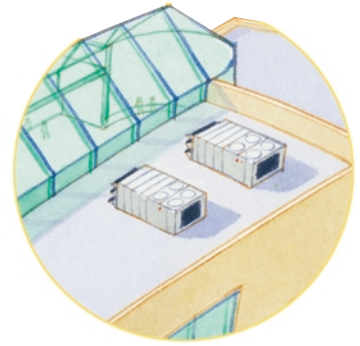
RAUC
20-105 TONS (50 HZ)
20-120 TONS (60 HZ)

	Cooling Capacity	Power Supply Volts/Phase/Hz		Uncrated Dimensions (in.)			Approx. Weight (Lbs)	
Model No.	MBh ¹	50 Hz	60 Hz	H	W	L		
RAUC C20	238	380-415/3/50	200-230/3/60 XL ²	5'7 ⁷ / ₈ "	5'0 ¹ / ₈ "	7'4 ¹ / ₄ "	1522	
RAUC C25	306							1690
RAUC C30	366					6'1 ³ / ₈ "	5'0 ¹ / ₈ "	7'4 ¹ / ₄ "
Dual Circuited Units								
RAUC C40	505	380-415/3/50	200-230/3/60 XL ²	6'6 ³ / ₈ "	7'4 ³ / ₈ "	7'4 ¹ / ₄ "	2769	
RAUC C50	615			6'6 ³ / ₈ "	7'4 ³ / ₈ "	9'5 ⁷ / ₈ "	3148	
RAUC C60	730						3480	
RAUC C80	1070	380-415/3/50	200-230/3/60 PWS ²	6'5 ³ / ₄ "	7'4 ¹ / ₄ "	14'8 ¹ / ₂ "	5829	
RAUC D10	1315			6'5 ³ / ₄ "	7'4 ¹ / ₄ "	18'11 ¹ / ₂ "	6736	
RAUC D12	1600						7028	

¹Based on 60 Hz operation

²Available 460/3/60 XL

LIGHT COMMERCIAL RANGE



ROOFTOP UNITS FROM 1.5 TO 50 TR

Trane is a worldwide leader in the manufacture of rooftop units (600 units per day)

Rooftop units are evidently the cheapest solution for large surface areas : above 300 m². For industrial premises, office blocks or sales units.

They can be installed on any type of flat rooftop.

The installation is simple and maintenance is made easy by direct access to the components and electronic microprocessor regulation.

The Varitrac system is one of the stars of this range.

This duct and volume management system allows variable thermal needs to be set.



LIGHT COMMERCIAL RANGE

Rooftops units



The wide range of Trane rooftop units satisfies the requirements of any installation. The units are simple to install and maintain, thanks to the direct access to internal components and a high level of reliability.

Compact, with low profile appearance, the IMPACK units are convertible for downflow and horizontal applications.

For larger applications, the VOYAGER units introduce a micro-processor control providing reliability, flexibility and high level performance. The Voyager units are available with dedicated airflow, in cooling only, heatpump and gas fired configurations with a wide range of accessories and factory-mounted options.

In addition to this range, Trane provides the VARITRAC® system, capable of responding to different thermal requirements in several zones providing superior comfort control.

For the ultimate system control, TRACKER allows supervision of installation and controls additional devices of the building, such as : lights, signs, fans etc..., from a single location

Range overview

IMPACT	WCC (50 Hz)				TCC (60 Hz)																	
	30	40	50	18	24	30	36	42	48	60												
	Cooling capacity (MBH)			30	40	50	Cooling capacity (MBH)			18	23.4	29.8	35.2	40.5	48	60						
	Heat pump capacity (MBH)			29.4	38.6	48.1	WCC (60 Hz)			18	24	30	36	42	48	60						
	TCC (50 Hz)			30	40	50	Cooling capacity (MBH)			18	23.8	29.8	36	41.5	48	60						
	Cooling capacity (MBH)			30	40	50	Heating capacity (MBH)			18	23.8	29.0	35.4	42	48	60						
VOYAGER					YCC (60 Hz)				18	24	30	36	42	48	60							
					Cooling capacity (MBH)				18	23.4	29.8*	35.2	42	48*	60							
					Heating capacity (MBH)				38	40	60*	80*	80	100*	100							
					* High heating capacity																	
									WCH/D (60 Hz)				150	180	240							
									Cooling capacity (MBH)				152.5	183.5	237							
VOYAGER III									Heat Pump cap. (MBH)				135	160	204							
	TCD/H (50 Hz)				63	73	100	125	155	175	200	250	TCH/D (60 Hz)				150	180	210	240	300	
	Cooling capacity (kW)				18.3	22.6	29.6	34.7	42.4	48.2	57.9	62	Cooling capacity (MBH)				151	183	208	246	290	
	YCD/H (50 Hz)				63	73	89	100	125	155	175	200	250	YCH/D (60 Hz)				150	180	210	240	300
	Cooling capacity (kW)				18.3	22.6	25.4	29.4	34.7	42.4	48.2	57.9	62	Cooling capacity (MBH)				151	183	208	246	290
	Gas furnace capacity (kW)				41.4	41.4	41.4	49.1	49.1	70.6	70.6	77.4	77.4	Heating capacity (MBH)				203	284	284	324	324
VOYAGER III																						
	TCD/H - TED/H (50 Hz)				275	305	350	400	500	TCH/D - TEH/D (60 Hz)				330	360	420	480	600				
	Cooling capacity (MBH)				279	304	375	409	505	Cooling capacity (MBH)				330	360	420	480	587				
	Electric heating capacity (kW)				27	40	54	67	81	Electric heating capacity (kW)				90	90	90	108	108				
	YCD/H (50 Hz)				275	305	350	400	500	YCD*/H (60 Hz)				330	360	420	480	600				
	Cooling capacity (MBH)				279	304	375	409	505	Cooling capacity (MBH)				330	360	429	480	600				
VOYAGER III	Gas furnace capacity (kW)*				119	119	119	159	159	Gas furnace capacity (MBH)				486	486	486	648	648				
	* High heating capacity																					

* High heating capacity

* High heating capacity



Rooftop Units



1.5 - 50 TR



The wide range of TRANE rooftop units satisfies the requirements of any installation.

The units are simple to install and maintain, thanks to the direct access to internal components and control by electronic microprocessor controls.



VOYAGER (TCD/H, WCD/H)

FOR WHOM? FOR WHAT?

Ideal for large and medium-sized commercial business locations, shopping arcades, industrial sites, restaurants, cinemas ...

Possibility to multiply the number of rooftop units in order to avoid more complex and costly configurations.



VOYAGER III

TRANE'S ADVICE

This type of product is particularly appreciated for its simplicity of installation, reliability and cost, also can be used on buildings of more than 2 floors.



VOYAGER GAS/ELECTRIC

LIGHT COMMERCIAL RANGE



Precedent™



3 - 10 TR

New 3 - 10 ton Packaged Roof Tops are here, with more to come in 2002!!!

Added Flexibility

- Electromechanical or microprocessor controls
- Standard or high efficiency cooling
- Low, medium or high heat, single or two stage
- Convertible airflow
- Fork lift openings on three sides of unit
- Direct or belt drive - standard or oversized motors (Direct for 3-5 ton only)
- We don't prepackage options
- Choose options tailored to suit each job —pay only for what is needed
- Units ship with options installed —and within our standard ship cycle time

Factory Installed Options

- Through-the-Base — Electrical, gas, condensate
 - Convenience Outlet — Powered or unpowered
 - Unit Disconnect Switch
 - Smoke Detectors — Supply, return, or both
 - Condenser Coil Coating
 - Hinged Access Service Panels
 - Discharge Air Sensor
 - Fan Fail and Clogged Filter Switches
 - Condenser Coil Guard — Hail Protection
- Quality

The same Trane Quality and Reliability ... with added Flexibility!

3-10 ton Packaged Rooftops



Featuring New Look for a New Century

Beveled Top
Smoother Design
Small compact cabinet
Recessed access handles

NEW!

Self-contained rooftop unit

Impack range



THERMOSTAT

Operating limits :

	Outdoor air temperature	
	Cooling mode	Heating mode
Standard	+ 13°C to + 46°C	– 14°C to + 18°C
With speed controller	– 18°C to + 46°C	

Available in cooling and electric heat, heat pump and gas heating.
High efficiency models up to 16 SEER available in 60 Hz.

The standard unit is convertible :
for horizontal or vertical discharge.

Main features :

- "CLIMATUFF" compressor,
- Internal protection of fan and compressor windings,
- Crankcase heater,
- Liquid line filter drier,
- Reversing valve,
- Pressure taps for pressure gauges,
- Outdoor and indoor coils with flat aluminium fins and copper tubes,
- R22 operating charge,
- Direct drive outdoor axial fan,
- 2-speed indoor centrifugal fan,
- Galvanised steel casing coated with enamel paint,

Accessories :

- Assembled adjustable roofcurb,
- 10.5 kW electric heater (1 stage),
- 25% fresh air inlet,
- Outdoor low ambient speed controller,
- Filter set.

Control :

- 24 V electro-mechanical control with :
Digital display electronic wall thermostat :
- non programmable TAYSTAT 570 (LCD screen)
- programmable BAYSTAT 038 (LCD screen)

Main features :

- Single circuit unit : sizes 063 and 073,
- Dual circuit unit : sizes 100 to 200,
- "3 D-Scroll" compressor for sizes 125 to 250,
- Internal protection of winding for fans and compressor(s),
- Crankcase heater on size 063 to 100,
- Frost protection control system,
- Direct drive outdoor axial fan :
 - 1 fan : TCD/H 063 to 125,
 - 2 fans : TCD/H 150 to 250,
- Variable pulley-belt drive indoor centrifugal fan,
- Galvanised steel water-tight casing,
- Disposable filters supplied as standard.

Factory mounted options :

- Economizer for fresh air intake and free-cooling (comparative enthalpy control),
- Motorized hood 0-50% for fresh air intake,
- NEW : CO2 sensor (operates with the economizer),
- Smoke detector,
- Electric heater,
- Disconnect switch (Pre-wired),
- Clogged filter sensor,
- Oversized drive kit (ton increase available static pressure),

Field installed accessories :

- 0-25% manual hood for fresh air intake,
- NEW : Remote potentiometer (for remote control of the motorized hood 0-50%),
- Fire thermostat,
- Roofcurbs (TCD only),

Control :

- Control of the unit by microprocessor,
- Non-programmable electronic thermostat BAYSENS 010,
- Programmable electronic thermostat BAYSENS 019 (accessory).
- Interface for communication with Tracer-Tracker and supervisor Varitrac®,
- CTI board to adapt to thermostats other than zone sensors.

Self-contained rooftop unit
VOYAGER I and II range
TCD: Downflow discharge and intake
TCH: Horizontal discharge and intake

BAYSENS 010

BAYSENS 019
Operating limits :

	Cooling mode
Outdoor air temperature	- 18°C to + 46°C
Min. intake temperature on the indoor coil	+ 18°C

Model TC*	063	073	89	100	125	155	175	200	250	150	180	210	240	300
ARI Gross Cooling Capacity (MBH) ¹	65.2	80.8	91	106.7	124.9	152.5	176.3	208.2	225.3	150	182	210	242	290
System Power (kW)	6.4	8.2	9.7	10.4	12.2	14.7	18	20	21.3	14.49	17.57	20.0	23.91	28.05
Optional Electric Heater (kW)	26.9	26.9	26.9	26.9	26.9	40.3	53.8	53.8	53.8	54	54	72	72	72
Compressor No./Type	1/Recip.	1/Recip.	1/Recip.	2/Recip.	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Sound Rating (BELS) ²	8.6	8.6	8.8	8.8	9.0	9.0	9.2	9.2	9.4	9.2	9.2	9.4	9.4	9.4
Drain Connection Number.	1	1	1	1	1	1	1	2	2	1	1	1	1	1
Drain Connection Size in.	3/4 PVC	3/4 PVC	3/4 PVC	1 NPT	1 NPT	1 NPT	1 NPT	1 NPT	21 NPT	1 NPT	1 NPT	1 NPT	1 NPT	1 NPT
Outdoor Fan No. Motors/HP	1/0.5	1/0.5	1/0.5	1/0.75	1/0.75	2/0.33	2/0.75	2/0.75	2/0.75	2/0.5	2/0.5	2/1.0	2/1.0	2/1.0
Indoor Fan HP	1.0	1.0	2.0	1.5	2.0	2.0	3.0	3.0	5.0	3.0	3.0	5.0	5.0	7.5
Refrigerant Charge (lbs of R22) per circuit ³	8.5	10	5.7	8.0	8.4	10.8	13.1	12.9	15.9	9.3	17.5	21	18.9	17
						9.2	6.8	8.7		9.4	9.5	14.3	21	

(1) Cooling mode with inlet air temperature of 27°C DB/19°C WB and outdoor temperature of 35°C. (2) Sound Ratings shown are tested in accordance with ARI standard 270 or 370. (3) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

Dimensions : see page 56



YCD-YCH

R22

5 - 20 TR, 12.5 - 25 TR 60 Hz



TRANE®

Gas-fired self-contained rooftop unit

VOYAGER I and II range

YCD: downflow discharge and intake

YCH : horizontal discharge and intake



YCD



BAYSENS 010



BAYSENS 019

Operating limits :

		Cooling mode	Heating mode
Outside air temperature		- 18°C to + 46°C	-
Min. inlet temperature	on indoor coil	+ 18°C	-
	on the burner	-	+ 5°C

Model YC*	063	073	89	100	125	155	175	200	250	150	180	210	240	300
ARI Gross Cooling Capacity (MBH) ¹	65.2	80.8	91	104.3	124.9	152.5	176.3	208.2	225.3	150	182	210	242	290
System Power (kW)	6.4	8.2	9.7	10.9	12.2	14.7	18	20	21.3	14.8	17.94	20.41	24.42	28.05
Heating Output (MBH) ²	137.9	137.9	137.9	118.1	118.1	233.1	233.1	268.9	268.9	203	203	284	324	324
First Stage (MBH)	100	100	100	118.1	118.1	166.9	166.9	202	202	142	142	203	243	243
Steady State Efficiency (%)	81	81	81	81	81	81	81	81	81	81	81	81	81	81
Gas Connection Pipe (in.)	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4
Compressor No./Type	1/Recip.	1/Recip.	1/Recip.	2/Recip.	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Sound Rating (BELS) ³	8.6	8.6	8.8	8.8	9.0	9.0	9.2	9.2	9.4	9.2	9.2	9.4	9.4	9.4
Drain Connection Number.	1	1	1	1	1	1	1	2	2	1	1	1	1	1
Drain Connection Size in.	3/4 PVC	3/4 PVC	3/4 PVC	1 NPT	1 NPT	1 NPT	1 NPT	1 NPT	1 NPT	1 NPT	1 NPT	1 NPT	1 NPT	1 NPT
Outdoor Fan No. Motors/HP	1/0.5	1/0.5	1/0.5	1/0.75	1/0.75	2/0.33	2/0.75	2/0.75	2/0.75	2/0.5	2/0.5	2/1.0	2/1.0	2/1.0
Indoor Fan HP	1.0	1.0	2.0	1.5	2.0	2.0	3.0	3.0	5.0	3.0	3.0	5.0	5.0	7.5
Refrigerant Charge (lbs of R22) per circuit ⁴	8.5	10	5.7	8.0	8.4	10.8	13.1	12.9	15.9	9.3	17.5	21	18.9	17
					9.2	6.8	8.7			9.4	9.5	14.3	21	

(1) Cooling mode with inlet air temperature of 27°C DB/19°C WB and outdoor temperature of 35°C. (2) High output capacity. (3) Sound Ratings shown are tested in accordance with ARI standard 270 or 370. (4) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

Dimensions : see page 58

Main features :

- Single circuit unit : sizes 063 to 089,
- Dual circuit unit : sizes 100 to 200,
- "3 D-Scroll" compressor for sizes 125 to 250,
- Internal protection of windings for fans and compressor(s),
- Crankcase heater on size 063 to 100,
- Frost protection control system,
- Direct drive axial outdoor fan :
- 1 fan for sizes 063 to 125.
- 2 fans for sizes 150 to 250.
- Variable pulley-belt drive centrifugal indoor fan,
- Galvanised steel water-tight casing,
- Disposable filters supplied as standard.

Characteristics of the GAS heating module :

- Burner with forced combustion blower,
- High efficiency (> 86%),
- Gases used : natural gas. Option L.P. gas.

Factory mounted options :

- Economizer for fresh air intake and free-cooling (comparative enthalpy control),
- Motorized hood 0-50% for fresh air intake,
- **NEW** : CO2 sensor (operates with the economizer),
- Smoke detector,
- Propane gas conversion,
- Disconnect switch (Pre-wired),
- Clogged filter sensor,
- Oversized drive kit (ton increase available static pressure),

Field installed accessories :

- 0-25% manual hood for fresh air intake,
- **NEW** : Remote potentiometer (for remote control of the motorized hood 0-50%),
- Fire thermostat,
- Roofcurbs (YCD only),

Controls :

- Control of unit by 24 V microprocessor,
- Non-programmable electronic thermostat BAYSENS 010,
- Programmable electronic thermostat BAYSENS 019.
- TC3 interface for communication with Tracer-Tracker and supervisor Varitrac®
- CTI board to adapt to thermostats other than BAYSENS 010 or BAYSENS 019

LIGHT COMMERCIAL RANGE

Main features :

- Single circuit unit : sizes 063 and 073,
- Dual circuit unit : sizes 100 to 200,
- Internal protection of winding for fans and compressor(s),
- Crankcase heater on size 063 to 100,
- 4-way reversing valve,
- Frost protection control system,
- Direct drive outdoor axial fan :
- 1 fan : WCD-WCH 063 to 125
- 2 fans : WCD-WCH 150 to 250,
- Variable pulley-belt drive indoor centrifugal fan,
- Galvanised steel water-tight casing,
- Disposable filters supplied as standard.

Factory mounted options :

- Economizer for fresh air intake and free-cooling (comparative enthalpy control),
- Motorized hood 0-50% for fresh air intake,
- **NEW** : CO2 sensor (operates with the economizer),
- Smoke detector,
- Electric heater,
- Disconnect switch (Pre-wired),
- Washable filters,
- Clogged filter sensor,
- Oversized drive kit (ton increase available static pressure),

Field installed accessories :

- 0-25% manual hood for fresh air intake,
- **NEW** : Remote potentiometer (for remote control of the motorized hood 0-50%),
- Fire thermostat,
- Roofcurbs (WCD only),
- Duct mounting CO2 sensor kit.

Control :

- Control of the unit by microprocessor (24 V),
- Non-programmable electronic thermostat BAYSENS 019,
- Programmable electronic thermostat,
- Interface for communication with Tracer-Tracker and supervisor Varitrac®,
- CTI board to adapt to thermostats other than BAYSENS 011 or BAYSENS 019.

Self-contained rooftop unit

VOYAGER I and II range

WCD: Downflow discharge and intake

WCH: Horizontal discharge and intake



BAYSENS 011



BAYSENS 019

Operating limits :

	Cooling mode	Heating mode
Outdoor air temperature	- 18°C to + 46°C	- 14°C to + 18°C
Min. intake temperature on the indoor coil	+ 18°C	+ 10°C

Model WC*	063	073	100	125	155	200	150	180	240
ARI Gross Cooling Capacity (MBH) ¹	65.2	80.8	104.3	124.9	152.5	208.2	152	183.5	233
System Power kW	6.5	8.4	10.5	12.9	15.6	22.3	15.16	18.31	22.2
Heating Output (MBH) ²	60.2	73.3	100.2	120.2	130.7	203.3	135	160	208
System Power Heating (kW)	5.4	6.6	9.0	10.5	12.1	18	10.8	15.12	22.2
Compressor No./Type	1/Recip.	1/Recip.	2/Recip.	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Sound Rating (BELS) ³	8.6	8.6	8.8	9.0	9.0	9.2	9.2	9.2	9.4
Drain Connection No./Size in.	1/4" PVC	1/4" PVC	1/1 NPT	1/1 NPT	1/1 NPT	2/1 NPT	1/1 NPT	1/1 NPT	1/1 NPT
Outdoor fan No. Motors/HP	1/0.5	1/0.5	1/0.75	2/0.33	2/0.33	2/0.75	2/0.5	2/0.5	2/1.0
Indoor Fan HP	1.0	1.0	1.5	2.0	2.0	3.0	3.0	3.0	5.0
Refrigerant Charge (lbs of R22) per circuit ⁴	12.5	14.3	11	12	12.3	18	11.1	13.2	22
			11.3	11.8			11.4	12.8	21

(1) Cooling mode with inlet air temperature of 27°C DB/19°C WB and outdoor temperature of 35°C. (2) High output capacity. (3) Sound Ratings shown are tested in accordance with ARI standard 270 or 370. (4) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

Dimensions : see page 57

TCD-TCH TED-TEH, YCD-YCH

R22 27.5 - 50 TR

Voyager III



TCD/TED : downflow discharge and intake
TCH/TEH : horizontal discharge and intake
TED/TEH : cooling only + electric heater
YCD/YCH : Gas fired

BAYSENS 010

BAYSENS 019

Operating limits :

		Cooling mode	Heating mode
Outdoor air temperature		- 18°C to + 46°C	-
Min. inlet temperature	on indoor coil	+ 18°C	-
	on burner	-	+ 5°C

General Data – Model TC*	60 Hz					50 Hz				
	330	360	48	450	600	275	305	350	400	500
ARI Gross Cooling Cap. (MBH) ¹	329	363	417	513	616	279	304	375	409	505
Heating Output (MBH) ²	486	486	486	648	648	405	405	405	542.7	542.7
First Stage (MBH) ²	344.5	344.5	344.5	486	486	344.3	344.3	344.3	486	486
Steady State Efficiency (%) ³	81	81	81	81	81	81	81	81	81	81
No. Burners/No. Stages ²	2/2	2/2	2/2	2/2	2/2					
Gas Connection Pipe Size (in.) ²	1	1	1	1	1	3/4	3/4	3/4	3/4	3/4
Electric Heat Range (kW)	27-90	27-90	27-90	41-108	41-108					
Compressor No./Type	2/Scroll	2/Scroll	2/Scroll	3/Scroll	3/Scroll	2/Scroll	2/Scroll	2/Scroll	3/Scroll	3/Scroll
Comp. Size (Nominal Tons)	10/15	15	15	15/15/10	14	10/15	15/15	15/15	15/15/10	15/15/15
Comp. Unit Cap. Steps (%)	100/40	100/50	100/50	100/60/40	100/67/33	100/40	100/50	100/50	100/60/40	100/67/33
Outdoor Fan No Motors/HP	3/1.10	3/1.10	3/1.10	4/1.10	4/1.10	3/0.75	3/0.75	3/0.75	4/0.75	4/0.75
Indoor Fan Type/No. Used	FC/1	FC/1	FC/1	FC/1	FC/1	FC/1	FC/1	FC/1	FC/1	FC/1
Indoor Fan Diameter (in)	22.4	22.4	22.4	25.0	25.0	22.4	22.4	22.4	25.0	25.0
Indoor Fan Width (in)	22.0	22.0	22.0	25.0	25.0	22.0	22.0	22.0	25.0	25.0
Indoor Fan Motor HP	7.5/10	7.5/10	7.5/10/15	10/15	10/15/20	7.5	7.5	7.5	10.0	10.0
Filters Type	Throwaway					Throwaway				
Filters No.	Yes/16	Yes/16	Yes/16	Yes/17	Yes/17	Yes/16	Yes/16	Yes/16	Yes/17	Yes/17
Filters Recommended Size (in)	16x20x2	16x20x2	16x20x2	16x20x2	16x20x2	16x20x2	16x20x2	16x20x2	16x20x2	16x20x2
Refrigerant Charge (lbs of R22) per circuit ⁴	46	46.6	51.5	26.0	25.7	46	46	52	24.5	23.9
			47.1	54.3					42.5	49.4

(1) Minimum Outside Air Temp.
 For Mechanical Cooling (F) (2) Cooling mode with inlet air temperature of 27°C DB/19°C WB and outdoor temperature of 35°C. (3) High output capacity. (4) Steady state efficiency is rated in accordance with DOE test procedures. (5) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

Dimensions : see page 58



Main features :

- “3 D-Scroll” compressor,
- Internal protection of windings for fans and compressor(s),
- Frost protection control system,
- Direct drive axial outdoor fan :
 - 3 fans for sizes 275-300-350 and 330-360-420,
 - 4 fans for sizes 400-500 and 480-600.
- Variable pulley-belt drive centrifugal indoor fan (drive type selected with order).

Factory mounted options :

- Economizer for fresh air intake and free-cooling (comparative enthalpy control),
- Barometric relief or exhaust fan,
- 0-25% manual hood for fresh air intake,
- **NEW** : CO2 sensor (operates with the economizer),
- Smoke detector,
- Propane gas conversion (YCD/YCH),
- Disconnect switch (Pre-wired),
- Washable filters,
- Clogged filter sensor,
- Oversized drive kit (ton increase available static pressure),
- Hinged access doors,
- Coil guard for condenser,

Field installed accessories (NEW) :

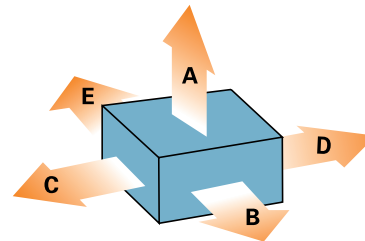
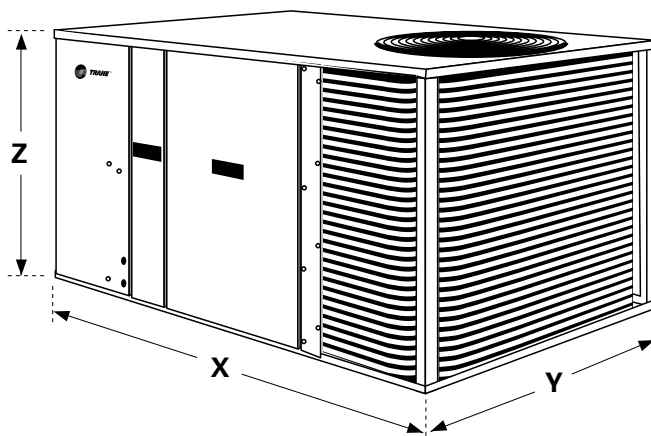
- Remote potentiometer (for remote control of the motorized hood 0-50%)
- Fire thermostat
- Roofcurbs (TCD, TED, YCD only)

Control :

- Control of unit by 24 V microprocessor,
- Non-programmable electronic thermostat BAYSENS 010,
- Programmable electronic thermostat BAYSENS 019 (accessory),
- Interface for communication with Tracer-Tracker and supervisor Varitrac®,
- CTI board to adapt to thermostats other than BAYSENS 010 or BAYSENS 019.

LIGHT COMMERCIAL RANGE

Impact (1.5 - 5 TR)



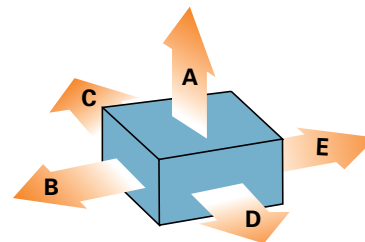
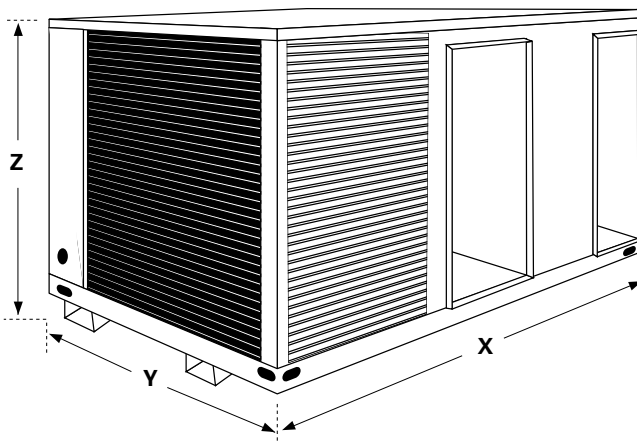
Model and size			TCC/YCC/WCC 018 - 042	TCC/YCC/WCC 048 - 060
Dimensions (1)	Length (X)	(mm)	1401	1633
	Width (Y)	(mm)	966	1195
	Height (Z)	(mm)	741	848
	Clearance (A)	(mm)		1900
	Clearance (B)	(mm)		1300
	Clearance (C)	(mm)		920
	Clearance (D)	(mm)		920
Clearance (E) (mm)			1300	

(1) A : condenser air outlet - B : condenser air inlet - C : maintenance (elec. pannel, gaz module...) - D : condenser air inlet - E : maintenance (economizer ...)

Shipping Weights

Size	018	024	030	036	042	048	060
Model TCC	319	327	354	369	389	513	547
Model WCC	337	337	359	383	400	552	547
Model YCC	341	350	398	454	454	576	604

TCD-TCH (17-60 kW 50 Hz, 12.5 - 25 TR 60 Hz)

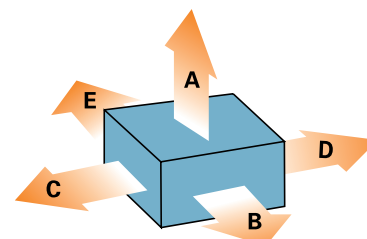
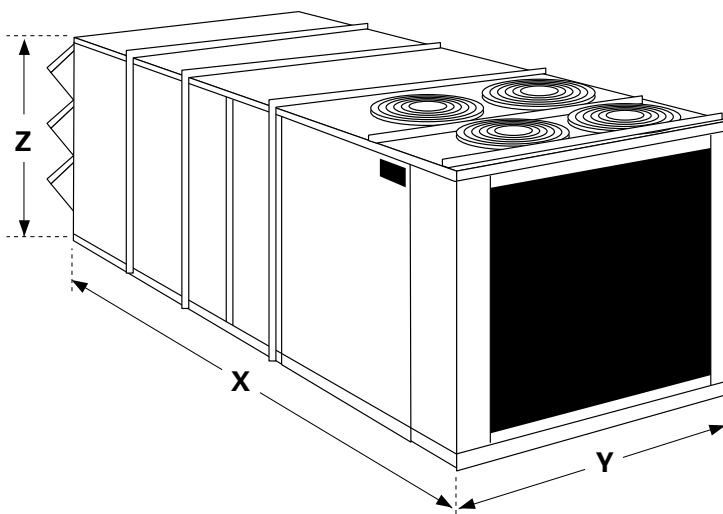


Model and size			TC*063	TC*073	TC*100	TC*180 TC*125	TC*180 TC*155	TC*210 TC*175	TC*240 TC*200	TC*300 TC*250	
Dimensions (1)	Length (X)	(mm)	2215		2232	2395	2726		3107		
	Width (Y)	(mm)	1260			1608	1811		2154		
	Height (Z)	(mm)	889		1156	1245	1273		1372		
	Clearance (A)	(mm)	1900								
	Clearance (B)	(mm)	1300		1800						
	Clearance (C)	(mm)	920		1220						
	Clearance (D)	(mm)	920		1000						
	Clearance (E)	(mm)	1300								
Weight (2)		(kg)	286	313	403	517	622	640	827	876	

(1) A : condenser air outlet - B : condenser air inlet - C : maintenance (elec. pannel, gaz module...) - D : condenser air inlet - E : maintenance (economizer ...)

(2) without options

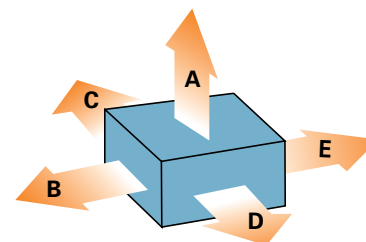
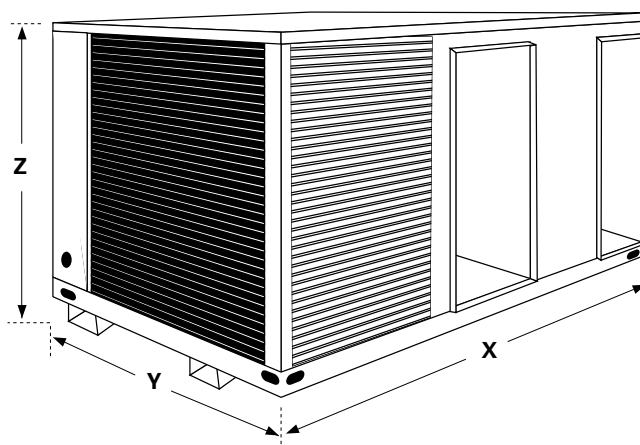
TCD/TCH - TED/TEH (25 - 50 TR)



Model and size			TC 275/330	TC 300/360	TC 350/420	TC 400/480	TC 500/600
Model and size			TE 275/330	TE 300/360	TE 350/420	TE 400/480	TE 500/600
Dimensions (1)	Length (X)	(mm)	4580			5917	
	Width (Y)	(mm)	2368			2638	
	Height (Z)	(mm)	1821			1988	
	Clearance (A)	(mm)	1900				
	Clearance (B)	(mm)	2440				
	Clearance (C)	(mm)	1220				
	Clearance (D)	(mm)	1220				
Weight (2)	TCD/TCH	(kg)	1584/1604	1620	1658	1998	2075
		(kg)	1599/1619	1635	1673	2014	2090
	TED/TEH	(kg)					

(1) A : condenser air outlet - B : condenser air inlet - C : maintenance (elec. pannel, gaz module...) - D : condenser air inlet - E : maintenance (economizer ...). (2) without options

WCD-WCH (17 - 60 kW 50 Hz, 12.5 - 20 TR 60 Hz)

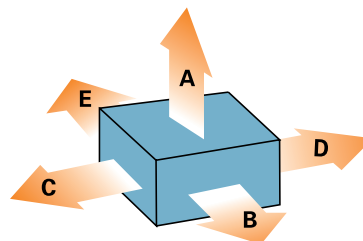
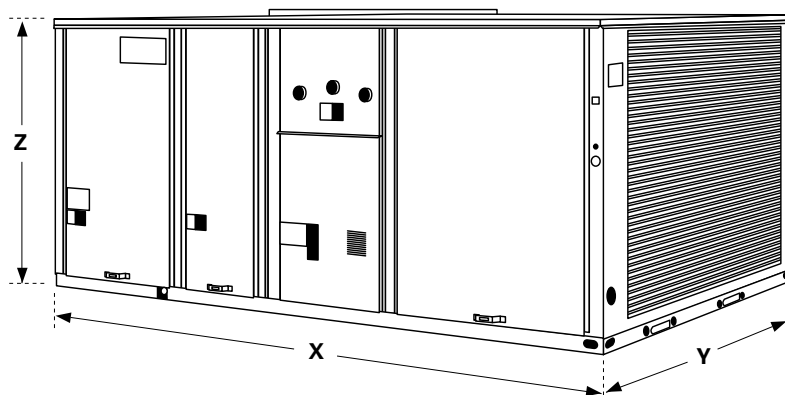


Model and size			WC 063	WC 073	WC 100	WC 125/150	WC 155/180	WC 200/240
Dimensions (1)	Length (X)	(mm)	2215		2395		2726	3107
	Width (Y)	(mm)	1260		1608		1811	2154
	Height (Z)	(mm)	889		1245		1273	1372
	Clearance (A)	(mm)	1900					
	Clearance (B)	(mm)	1300				1800	
	Clearance (C)	(mm)	920				1220	
	Clearance (D)	(mm)	920				1000	
Weight (2)		(kg)	313	327	520	618	640	877
		(kg)						

(1) A : condenser air outlet - B : condenser air inlet -
C : maintenance (elec. pannel, gas module...) -
D : condenser air inlet - E : maintenance (economizer ...).
(2) without options

LIGHT COMMERCIAL RANGE

YCD-YCH (17-62 kW 50 Hz and 12.5 - 25 TR 60 Hz)

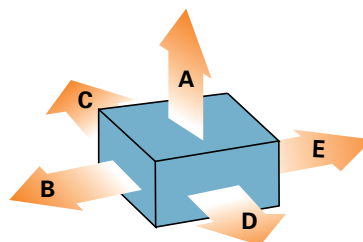
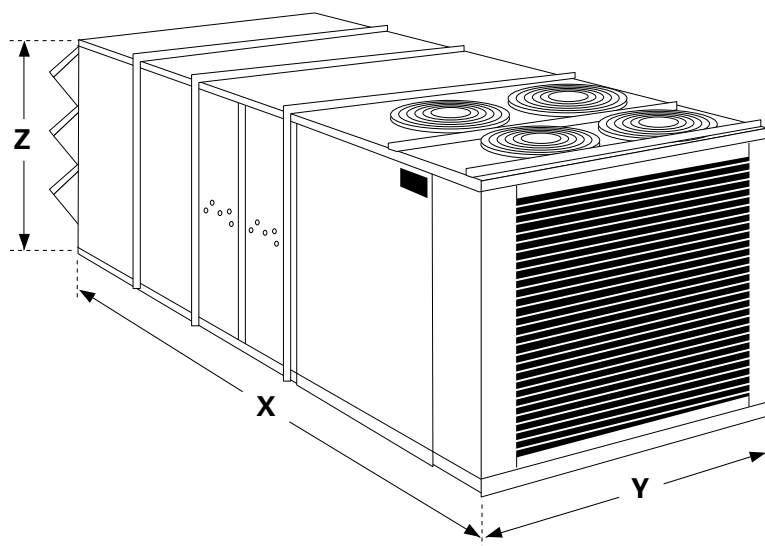


Model and size			063	073	089	100	150	180	210	240	300
							125	155	175	200	250
Dimensions (1)	Length (X)	(mm)		2215		2395		2726		3107	
	Width (Y)	(mm)		1260		1608		1811		2167	
	Height (Z)	(mm)		890		1245		1274		1372	
	Clearance (A)	(mm)					1900				
	Clearance (B)	(mm)		1300						1800	
	Clearance (C)	(mm)		920						1220	
	Clearance (D)	(mm)		920						1000	
	Clearance (E)	(mm)					1300				
Weight (2)		(kg)	340	360	435	540	562	645	700	910	960

(1) A : condenser air outlet - B : condenser air inlet - C : maintenance (elec. pannel, gaz module...) - D : condenser air inlet - E : maintenance (economizer ...)

(2) without options

YCD-YCH (27 - 50 TR)



Model and size			275/330 L	—	300/360 L	—	350/420 L	—	400 L	—	500 L	—
Model and size			—	275/330 H	—	300/360 H	—	350/420 H	—	400/480 H	—	500/600 H
Dimensions (1)	Length (X)	(mm)	4580	5285	4580	5285	4580	5285		5917		
	Width (Y)	(mm)		2368								
	Height		1821		1988							
	Clearance (A)	(mm)		1900								
	Clearance (B)	(mm)		2440								
	Clearance (C)	(mm)		1220								
	Clearance (D)	(mm)		1220								
	Clearance (E)	(mm)		1830								
Weight (2)	YCD	(kg)	1643	1805	1679	1841	1717	1880	2099	2153	2178	2230
	YCH	(kg)	1643	1835	1679	1869	1717	1902	2111	2167	2187	2243

(1) A : condenser air outlet - B : condenser air inlet - C : maintenance (elec. pannel, gaz module...) - D : condenser air inlet - E : maintenance (economizer ...)

(2) without options

Vertical Self-Contained



SAVE, SRVE, SIVE Vertical Self-Contained 60 - 180 MBH (60 Hz)

Features and Benefits:

- Available as water cooled self-contained (SAVE) or as air cooled (SRVE)
- Available with remote air cooled condenser (SIVE)
- Free discharge plenum or ducted discharge
- Attractively designed to be openly displayed
- Top vertical, rear horizontal or free air discharge
- Microprocessor control reliability, ICS compatibility

Model No.*	Gross Cooling Capacity ¹ MBH	Power Supply Volts/Phase/Hz		Uncrated Dimensions (in.)			Shipping Weight ² (Lbs)
		60 Hz	50 Hz	H	W	D	
SAVE 050	60	220,380,440/3/60	380/3/50	78.74	37.80	23.62	556
SAVE 075	90	220,380,440/3/60	380/3/50	78.74	46.85	23.62	668
SAVE 100	120	220,380,440/3/60	380/3/50	78.74	59.06	23.62	851
SAVE 125	150	220,380,440/3/60	380/3/50	78.74	66.93	23.62	1014
SAVE 150	180	220,380,440/3/60	380/3/50	78.74	66.93	23.62	1083

*Water-cooled model numbers and dimension shown.

Self-contained (SIVE) with remote air cooled condenser requires the condenser unit CRCB.

¹Capacity based on 60 Hz operation.

²Shipping weight shown for water cooled condenser models.



SAVE, SIVE Vertical Self-Contained — Water and Air-Cooled 20 - 40 Tons (60 Hz)

Features and Benefits:

- Available as water-cooled self-contained (SAVE) or as air-cooled self-contained (SIVE)
- SIVE Model also available with the remote air-cooled condenser (CRCB)
- Scroll compressors
- Microprocessor control reliability, ICS compatibility

Model No. ¹	Gross Cooling Capacity ¹ MBH*	Power Supply Volts/Phase/Hz		Uncrated Dimensions (in.)			Shipping Weight** (Lbs)
		60 Hz	50 Hz	H	W	D	
SAVC 200	240	220,380,440/3/60	380/3/50	78.74	74.02	33.46	1609
SAVC 250	300	220,380,440/3/60	380/3/50	78.74	74.02	33.46	1642
SAVC 300	360	220,380,440/3/60	380/3/50	78.74	97.24	38.58	2138
SAVC 350	420	220,380,440/3/60	380/3/50	78.74	97.24	38.58	2270
SAVC 400	480	220,380,440/3/60	380/3/50	78.74	97.24	38.58	2336

¹Water-cooled model numbers and shipping weight shown.

*Capacities based on 60 Hz



LIGHT COMMERCIAL RANGE



Wall Mounted

R22 **2 - 5 TR**

Features and Benefits

Flexibility in features and options allows customization to fit any customer requirement.

Emergency ventilation

The fan will operate on the shelter's battery backup in the event of a power failure, bringing in 100% outside air.

Free cooling

The optional economizer (dry bulb or enthalpy control) will provide energy savings by using the outside air.

Automation controls

Aside from a conventional or programmable thermostat, we can offer a lead lag controller or a PLC to best fit each project specification.

Quiet

The optional sound attenuation package is used in locations close to residential areas.

Efficient

Power factor capacitor helps to improve the electrical input, resulting in a more stable power supply.

Heating

Optional electrical heaters are available with one or two stages, depending upon capacity.

Easy to install

Plug-in capability allows for installation at the integrator's shop or at the job site.

Service panels

Provides easy access to the components from the outside of the shelter.

Filters

Washable or throwaway filters are furnished with the unit.

Balance

Our optional left or right scroll compressor assembly location will facilitate service.

Options

Trane Wall mounted has some options to better meet specific needs.
High Efficiency Economizer Cycle can supply 100% of outside air, in case of power failure.
Electric heat by using tubular resistances.
Throwaway and permanent filters.
Sight Glass to allow identification of problems in the refrigeration system, like lack of refrigerant, moisture, etc.
Sound attenuator to allow lower sound levels.

Specially designed for telecommunications.

Base Radio Stations have a high factor of sensible heat, which requires more capacity and flow in order to avoid malfunction of the telecommunications system.

The Trane Wall Mounted units were designed to supply the proper cooling to these applications.

The Trane tradition in air conditioning systems and controls, provide the development of an integrated system, designed especially for telecommunications.



Capacity Tables	SWMC 02		SWMB 02		SWMB 03		SWMB 04		SWMB 05	
60 Hz	MBh	Kcal	MBh	Kcal	MBh	Kcal	MBh	Kcal	MBh	Kcal
Total Capacity ¹	23.0	5796	27.5	6930	36.7	9248	47.9	12071	56.6	14314
Sensible Capacity ¹	16.4	4133	23.5	5922	27.1	6829	38.4	9677	41.9	10559
Total Capacity ²	22.1	5569	26.5	6678	35.2	8870	46	11592	55.2	13910
Sensible Capacity ²	16.1	4057	23.1	5821	26.5	6678	37.6	9475	41.2	10382
Performance at High Ambient Temperature										
Total Capacity ³	21.0	5292	25.2	6350	33.4	8417	43.7	11012	53.1	13381
Sensible Capacity ³	15.6	3931	22.5	5670	25.8	6502	36.7	9246	40.4	10181
Nominal Air Flow	Cfm	Cmh	Cfm	Cmh	Cfm	Cmh	Cfm	Cmh	Cfm	Cmh
	800	1360	1332	2265	1332	2265	2054	3492	2054	3492

Capacity Tables	SWMC 02		SWMB 02		SWMB 03		SWMB 04		SWMB 05	
50 Hz	MBh	Kcal	MBh	Kcal	MBh	Kcal	MBh	Kcal	MBh	Kcal
Total Capacity ¹	20.8	5242	24.5	6174	33.2	8366	42.8	10786	51	12852
Sensible Capacity ¹	15.5	3906	22.2	5594	25.7	6476	36.3	9148	39.6	9979
Total Capacity ²	20.0	5040	23.5	5922	31.9	8039	41.1	10357	49.6	12499
Sensible Capacity ²	15.2	3830	21.8	5494	25.2	6350	35.7	8996	39.0	9828
Performance at High Ambient Temperature										
Total Capacity ³	19.0	4788	22.4	5645	30.2	7610	39.1	9853	47.7	12020
Sensible Capacity ³	14.8	3730	21.2	5342	24.5	6174	34.8	8770	38.3	9652
Nominal Air Flow	Cfm	Cmh	Cfm	Cmh	Cfm	Cmh	Cfm	Cmh	Cfm	Cmh
	800	1360	1332	2265	1332	2265	2054	3492	2054	3492

(1) Cooling capacities for air-cooled units rated at 95°F (35°C) and 80°F (26.7°C) DB / 67°F (19.5°C) WB indoor air temperature.

(2) Cooling capacities for air-cooled units rated at 95°F (35°C) and 80°F (26.7°C) DB / 67°F (19.5°C) WB indoor air temperature.

(3) Cooling capacities for air-cooled units rated at 115°F (46.1°C) and 80°F (26.7°C) DB / 67°F (19.5°C) WB indoor air temperature.

VARITRAC® AND TRACKER



As a complement to the Rooftop range, TRANE also offers two accessories that quickly prove to be indispensable :

the VARITRAC® system which allows variable thermal needs to be regulated within several zones requiring air-conditioning

TRACKER, a system of microelectronic control and monitoring of the air conditioning system.

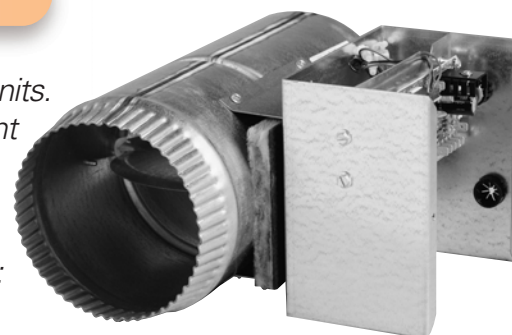


CCP2

FOR WHOM? FOR WHAT?

The VARITRAC® system is compatible with all types of Rooftop units. It allows individual comfort to be offered within zones with different thermal needs using one centralised Rooftop unit.

For the ultimate system control, TRACKER allows supervision of installation and controls additional devices of the building, such as : lights, signs, fans etc..., from a single location.



VADA ROUND
VARITRAC® DAMPER

TRANE'S ADVICE

The combination of a rooftop unit + Varitrac® + Tracker offers a complete solution, a true system offer for the overall management of a building.

This system can be used on new buildings or can be retrofitted on existing structures.



TRACKER

LIGHT COMMERCIAL RANGE

Each zone is equipped with a “VariTrac®” damper that modulates air supply according to the room temperature and the set points.

The CCP is the system’s nerve centre, continuously communicating with each damper to determine its requirements and inform it of the current state of the system.

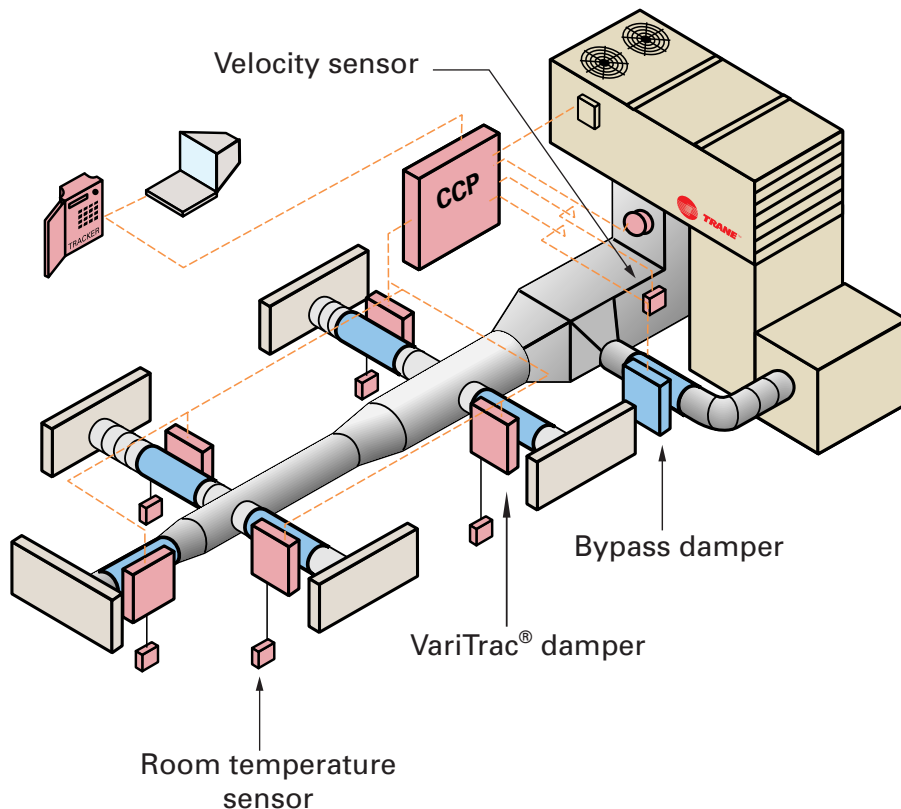
Increased zone count. The new VariTrac system now supports 24 zones instead of 16. The zones may be VariTrac dampers, or any type of VariTrane VAV box including fan-powered boxes or boxes with factory-installed local heat.

The CCP chooses the operating mode depending on the different demands, and controls the unit as well as the production of cold and hot air.

The installation is simple, quiet and unobtrusive, providing users with maximum comfort and enabling each person to choose their own room temperature.

Variable air volume system

The “VariTrac®” system is compatible with all the blower units, and provides individualised comfort in each zone by means of a central unit.



Hardware Overview

Central Control Panel Enclosure

The new VariTrac Central Control Panel (CCP) has a three-piece enclosure for simplified installation. All wiring is done on large, easily accessible terminal strips located in the wall mount base plate. The electronics are located in the middle section, which is snapped onto the base plate after mounting. The top section is either a blank face plate, or the optional operator display.

Central Control Panel Operator Display

The optional operator display (OD) is a back-lit liquid crystal display with touch-screen programming capability. Through the display you can access system status and zone status, and do basic set-up of the zone UCMs and the CCP system operating parameters. It is designed to give an installer the ability to commission a VariTrac system without requiring a PC. Additionally, the OD has a seven-day time clock built in to provide stand alone scheduling capability of the VariTrac system. Zones may be divided into four groups, each with its own schedule if desired. If there is no Tracker system on the job, the CCP must be ordered with a display. If Tracker is available, the CCP may have a blank cover plate installed instead of an OD.

Communicating Sensor/Bypass Control Assembly

The VariTrac duct sensors have been combined with a UCM into one factory-wired assembly, so it now resides on the Comm 4 link along with the zone dampers and Voyager/Precedent™ rooftop unit. The bypass damper is also wired to this assembly. This eliminates the multiple conductors and terminations between the CCP, the duct sensors and the bypass damper, where most installation errors occurred.

Bypass Damper Installation Harness

All bypass dampers will now be shipped with a 12-foot plenum-rated wiring harness attached to the damper at the factory. The harness has a polarized plug on the end which is plugged into the communicating sensor assembly control board. This eliminates bypass damper wiring errors during installation.

Digital Display Zone Sensor

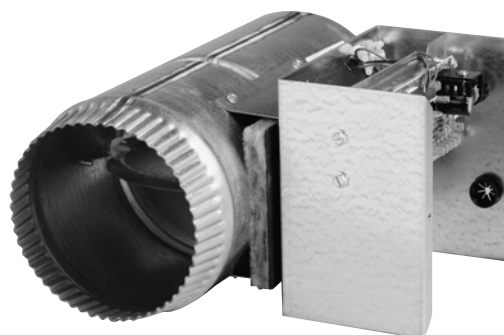
The new digital display zone sensor has the look and functionality of the standard Trane zone sensor, but includes an LCD digital display of the space temperature and setpoint adjustment in degrees F or C. The sensor has ON and CANCEL buttons, and a communications jack which can be accessed without removing the cover. The sensor requires 24 volts, and may share a power supply with UCM.



CCP2



TZS 004
DIGITAL DISPLAY
ZONE SENSOR



VADA
ROUND
VARITRAC®
DAMPER

CCP type damper	HVAC unit (rooftop or split system)	VariTrac zone damper or VariTrane VAV box	Bypass
New VariTrac	1 constant-volume Voyager, Precedent, or other RTU	24	1
	1 Voyager III VAV RTU	32	0

Note: The Voyager RTU, Precedent RTU, or other RTU must have either a communication interface card (TCI) or low-voltage relay interface. If a low-voltage relay is used, the CCP must be ordered with the optional relay board.

Optional Equipment

Zone Occupancy Sensor

The new zone occupancy sensor is a ceiling-mount infrared motion detector to be used with VariTrac zone damper UCM for controlling the occupied zone standby function. It can detect motion over a 360 degree range (adjustable) for up to a 1200 square foot area. It has SPDT isolated contacts for connection to the UCM occupancy input. The sensor requires 24 volts, and may share a power supply with UCM.

Zone CO2 Sensor

The zone CO2 sensor is a compact transmitter for use with the VariTrac UCM CO2 input for doing demand control ventilation. The sensor is available in either wall- or duct-mount enclosures. The sensor requires 24 volts, and may share a power supply with UCM.

VariTrac PC Software

Advanced set-up functions in VariTrac are now done with a new Windows®-based, graphical PC software program. Connection between the PC and the CCP is done with a standard serial port cable connection.

LIGHT COMMERCIAL RANGE



VariTrac™ Bypass and Zone Dampers Quick Select

Round Zone Damper

Capacity (cfm), Dimensions and Weights

Size (in)	6	8	10	12	14	16
Velocity (fpm)						
600	120	210	330	470	640	840
800	160	280	435	630	855	1115
1000	200	350	545	785	1070	1395
1200	235	420	655	940	1280	1675
1400	275	490	765	1100	1500	1955
1600	315	560	875	1255	1710	2235
Length (in)	12	12	16	16	20	20
Ship Wt (lbs)	11	12	17	18	27	31

Round Bypass Damper

Capacity (cfm), Dimensions and Weights

Size (in)	6	8	10	12
Velocity (fpm)				
600	120	210	330	470
800	160	280	435	630
1000	200	350	545	785
1200	235	420	655	940
1400	275	490	765	1100
1600	315	560	875	1255
1800	350	630	980	1415
2000	390	700	1090	1570
Length (in)	12	12	16	16
Ship Wt (lbs)	11	12	17	18

Rectangular Zone Damper

Capacity (cfm), Dimensions, Blades and Weight

Size (in)	8 x 12	8 x 14	8 x 16	10 x 16	10 x 20	14 x 18
Velocity (fpm)						
600	398	464	531	663	829	1045
800	531	619	707	884	1105	1393
1000	663	774	884	1105	1382	1741
1200	796	928	1061	1326	1658	2089
1400	928	1083	1238	1547	1934	2437
1600	1061	1238	1415	1769	2211	2785
Blades		2	2	2	3	3
Ship Wt (ilbs)	8	10	12	14	16	18

Rectangular Bypass Damper

Capacity (cfm), Dimensions, Blades and Weight

Size (in)	14 x 12	16 x 16	20 x 20	0 x 20
Velocity (fpm)				
600	696	1061	1658	2487
800	928	1415	2211	3316
1000	1161	1769	2763	4145
1200	1393	2122	3316	4974
1400	1625	2476	3869	5803
1600	1857	2830	4421	6632
1800	2089	3183	4974	7461
2000	2321	3537	5527	8290
Blades	2	3	3	3
Ship Wt (lbs)	16	21	29	40

Selection Procedures

Bypass Dampers

- 1 To determine the cfm capacity required for a bypass damper calculate 80 percent of the cfm capacity of the heating/cooling unit.
Example: If the rooftop capacity is 1200 cfm, $1200 \times .8 = 960$ cfm.
- 2 To determine the size of the damper locate the recommended velocity and cfm for the bypass damper.

Zone Dampers

- 1 Refer to the sizing chart for zone dampers. Follow down the first column in the table for the desired velocity. Then follow across for the recommended cfm (air volume) to determine the correct VariTrac damper size.
- 2 If the cfm exceeds the damper range, increase the damper size.
- 3 Minimum airflow should be set at 10 percent in heating or cooling when a zone duct temperature sensor is used for stand-alone control. In addition, when controlling electric reheat coils, cooling minimum airflow should meet the heating unit manufacturer's guidelines.

Note: Damper casing lengths are 16 inches in both Rectangular Zone and Rectangular Bypass Dampers.

TRACKER



Simple but Sophisticated Control

Tracker provides scheduling, monitoring, and timed override capabilities, as well as local and unit auto dial-out indication of alarms. Operator interface is simple and user-friendly with icons on the touch-screen display or through a computer using Tracker PC software (ICS)

Trane Control Feature

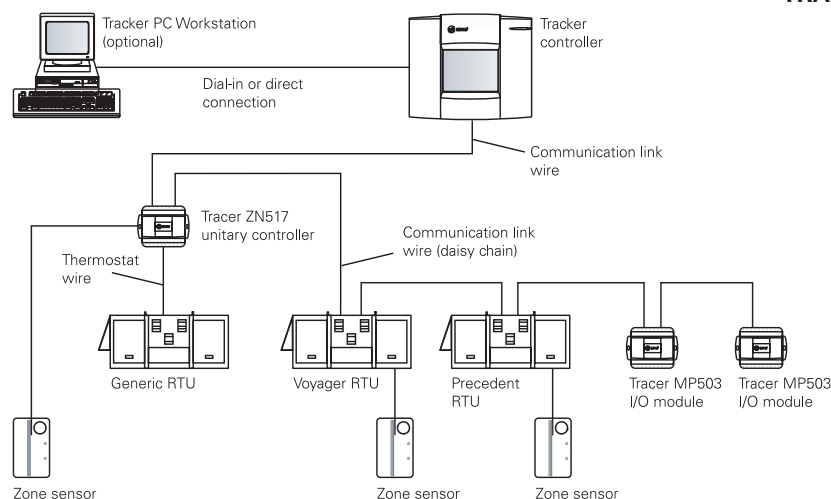
- **Simple** wiring and installation
- **Superior** automatic temperature control
- **Ventilation** control
- Inexpensive, easy-to-use sensors

The **touch screen display** provides all functionality and status of the building.

- **Reliable** electronics retain programming through power outages . . . no batteries to change.
- Optional **personal computer software** enables advanced features.



TRACKER



BAS	Model	Voyager rooftop and Precedent RTUs (SCC devices) with LonTalk communication interface (LCI) cards	Tracer ZN517 (SCC device) unitary controller	New VariTrac CCP	Tracer MP503 I/O controller		Voyager RTU with Trane Communication interface (TCI)	Thermosata Control Module (TCM)	VariTrac II CCP	Maximum Devices (See notes 1 and 2)
New Tracker (with touch screen)	12	12	12	5	4	0	0	0	0	21
	24	24	24	10	4	0	0	0	0	38
	24i (CE)	24	24	10	4	0	0	0	0	38

Features

The Tracker BAS offers the installer and operator features that ensure its ease of use.

Tracker BAS features

Both the controller and the PC software of the Tracker BAS offer these features:

- Intuitive, menu-driven user interface
- 365-day scheduling and 10 schedules
- Capability of including all equipment and devices in one schedule
- Temporary schedule override
- Easy-to-administer security system with two levels of access
- Automatic daylight savings time changeover
- Error and alarm messaging
- Setpoint viewing and editing

Features exclusive to the controller

Several features of the Tracker BAS are exclusive to the controller:

- Auto-configuration
- Pager notification for error and alarm messages
- LCD touch screen

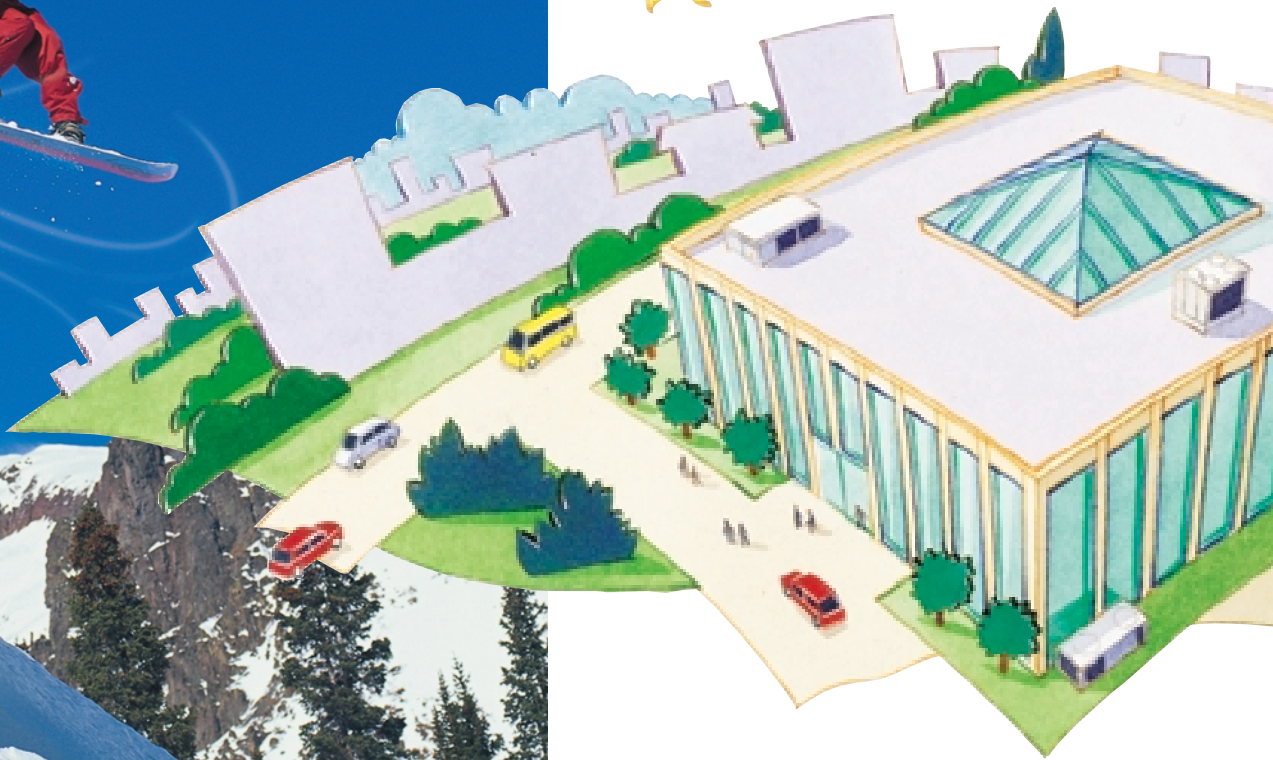
Features exclusive to the PC software

The optional Tracker PC software offers all the features of the Tracker controller and the following features that are not available at the controller:

- Dial-in connection
- Backup and restore capability
- Standard graphics and HTML graphical interface
- Binary output programming capability
- Operator-defined custom alarms capability
- Printer support

Note: The Tracker PC software is not needed to set up and operate a typical building.

LIGHT COMMERCIAL RANGE



WATER SYSTEMS

Water systems are, without a doubt, the TRANE area of expertise.

Scroll technology has promoted the development of these products which have advantages in complex installations.

The units are small in size, easy to install and reduce maintenance to a minimum.

Advantages for the user are good performance and a very low noise level.

A good solution at very competitive installation and purchase costs.



LIGHT COMMERCIAL RANGE



Small Chillers

Features and main characteristics



The 10 and 15-ton air-cooled Cold Generator™ chillers, with Trane direct drive hermetic scroll compressors, has outstanding standard features and additional benefits that make selection, installation, and servicing easy.

Flexibility

Footprint

Central to the design of any project is the operating envelope of the air-cooled packaged chiller. With this in mind, Trane builds the chillers to make the most efficient use of the available installation space. The Trane CGA model chillers are extremely compact. They have the lightest weight, the smallest footprint, and the lowest silhouette of any chiller in the industry.

Less Weight

These lightweight models afford less stress on building supports and greater handling ease.

Installation

Installation time and effort are reduced when dealing with a significantly smaller and lighter unit. In addition, having electrical and water connections on the same side of the unit and a single-point main power connection serves to make installation easier. The unit arrives at the jobsite fully assembled, tested, charged and ready to provide chilled water.



Trane's 20-60 ton chillers offer the same time-tested and proven control technology that is applied to the IntelliPak™ Air Cooled rooftops.

Superior control makes the IntelliPak a truly advanced chiller.

Other Standard Features

- Trane 3-D™ Scroll compressors
- Advanced motor protection
- 300 psi waterside evaporator Evaporator insulation (¾-inch Armaflex II or equivalent)
- Evaporator heat tape (thermostat controlled)
- Condenser coil guards
- Operation down to 30°F without additional wind baffles or head pressure control
- Loss of flow protection
- Packed stock availability
- Control Power Transformer
- Low ambient lockout
- Plain English (Spanish/French) Human Interface display
- Smart Lead/Lag operation
- Integrated chilled solution pump control
- Selectable process or comfort control algorithm
- External auto/stop
- Electronic low ambient damper control integrated into UCM

Enhanced Controls

IntelliPak™ Chiller Unit Control Module (UCM)

Microprocessor Control

The brain of the 20 through 60 ton air-cooled chiller is its Unit Control Module (UCM). The UCM is an innovative, modular microprocessor control design, which coordinates the actions of the chiller in an efficient manner, providing stand-alone operation of the unit.

Access to the unit controls is via a Human Interface (HI) Panel, a standard component of the IntelliPak chiller. This panel provides a high degree of control. Superior monitoring capability and unmatched diagnostic information is provided through a 2 line 40 character per line, English language display. There are no diagnostic "codes" requiring a translation key for interpretation. All system status information and control adjustments can be made from the onboard Human Interface Panel.



Remote Human Interface (RHI) — The optional Remote Human Interface (RHI) performs the same functions as the Human Interface, with the exception of the service mode. The RHI can be used with up to 4 air-cooled chillers from a single panel.

LIQUID CHILLERS

 **10 - 60 TR**



These are products offering easy outdoor installation thanks to their small size. They have all of the latest TRANE technological advances : electronic control, low-speed fans, etc. And these are technologies which ensure their reliability, operating silence, compactness and respect for the environment.

FOR WHOM? FOR WHAT?

This range of products is ideal for air-conditioning applications of a residential type (e.g. villas and apartments) or for buildings within the service sector (banks, offices, hotels ...) containing more than 3 or 4 rooms requiring air-conditioning.

They can be used together with indoor units such as console/ceiling, cassette or fan-coil installations.

These products are also widely used for process applications.



TRANE'S ADVICE

This product is to be recommended for the air-conditioning of a building where :

- there are more than three or four zones*
- only one outdoor installation is allowed*
- a very low sound level is required.*

LIGHT COMMERCIAL RANGE

Air-cooled liquid chiller Axial fan



General Data — 10–60 Ton Units

	10 Ton	15 Ton	20Ton	25Ton	30Ton	40Ton	50Ton	60Ton
	CGA120	CGA180	CGAF-C20	CGAF-C25	CGAF-C30	CGAF-C40	CGAF-C50	CGAF-C60
Compressor Data								
Model	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Quantity	2	2	2	1/1	2	4	2/2	4
Nominal Tons per Compressor	5	7.5	10	10/15	15	10	10/15	15
Evaporator								
Nominal Size (Tons)	10	15	20	25	30	40	50	60
Water Storage Capacity (Gallons) ²	1.4	1.5	11.7	10.7	16.3	13.8	21.0	37.8
Min. Flow Rate (GPM)	12.0	18.0	24	30	36	48	60	72
Max. Flow Rate (GPM)	36.0	54.0	72	90	108	144	180	216
Max EWT At Start-Up — Deg F ³	100	100	108	108	108	108	108	108
Condenser								
Nominal Size (Tons)	10	15	20	25	30	40	50	60
Number of Coils	1	2	1	2	2	2	2	2
Coil Size (ea., Inches) ⁴	28 x 108	28 x 83	61 x 71	45 x 71/35 x 71	56 x 70	56 x 70	57 x 96	57 x 96
Number of Rows	2	2	3	3	3	3	4	4
Subcooler Size (ea., Inches)	4 x 108	4 x 83	10 x 71	14 x 71	9 x 70	9 x 70	9 x 96	9 x 96
Condenser Fans								
Quantity	1	2	2	3	4	4	6	6
Diameter (Inches)	28	26	26	26	26	26	26	26
CFM (Total)	8,120	11,600	15,000	21,650	29,200	29,200	42,300	40,700
Nominal RPM	1100	1100	1140	1140	1140	1140	1140	1140
Tip Speed (Ft/Min)	8060	7490	7750	7750	7750	7750	7750	7750
Motor HP (ea.)	1.0	1/2	1.0	1.0	1.0	1.0	1.0	1.0
Drive Type	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct
Minimum Outdoor Air Temperature Permissible For Mechanical Cooling¹								
Standard Ambient Control Unit (°F)	50	50	30	30	30	30	30	30
Standard Ambient w/Hot Gas Bypass (°F)	60	60	40	40	40	40	40	40
Low Ambient Option (°F)	0	0	0	0	0	0	0	0
Low Ambient Control w/Hot Gas Bypass(°F)	15	15	10	10	10	10	10	10
General Unit								
Unload Steps	100-50	100-50	100-50	100-60-40	100-50	100-75-50-25	100-80-60-30	100-75-50-25
No. of Independent Refrig. Circuits	2	2	1	1	1	2	2	2
Refrigerant Charge (lbs. R22/Circuit)	8.25	11.5	40.5	54.0	72.0	38.0	47.0	67.0
Oil Charge (Pints/Circuit)	4.1	7.5	8.0	8.0/14.0	14.0	8.0	8.0/14.0	14.0

*Unloading steps depend upon which compressor is lead compressor.

Notes:

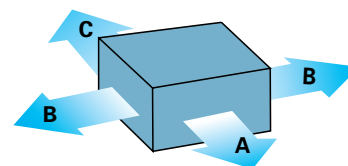
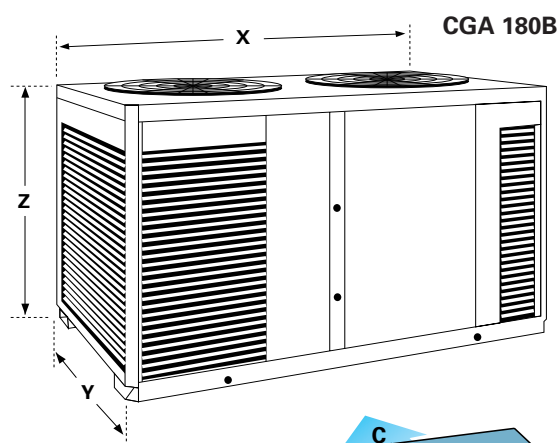
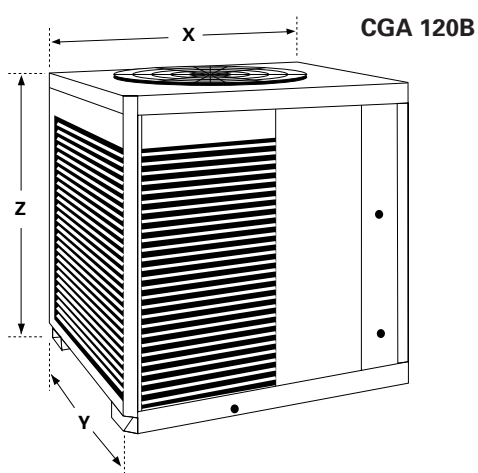
¹ Minimum start-up ambient based on unit at minimum step of unloading and a 5 mph wind across the condenser.

² Includes piping internal to chiller.

³ At 95° F ambient.

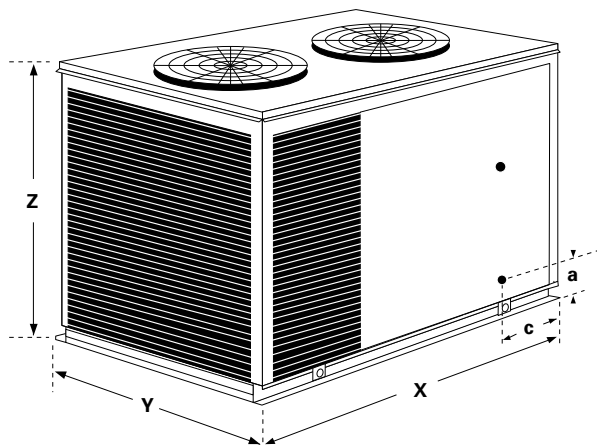
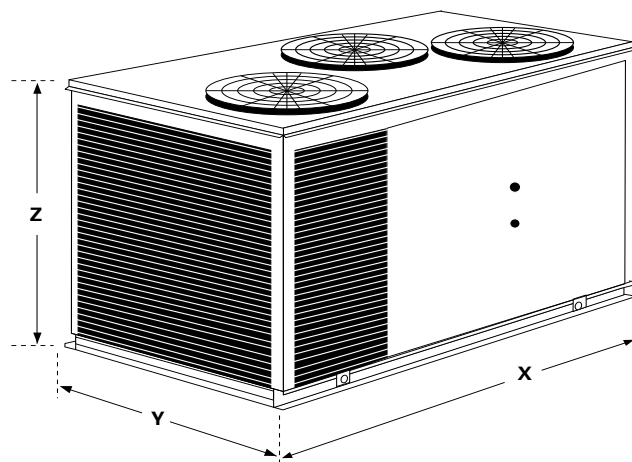
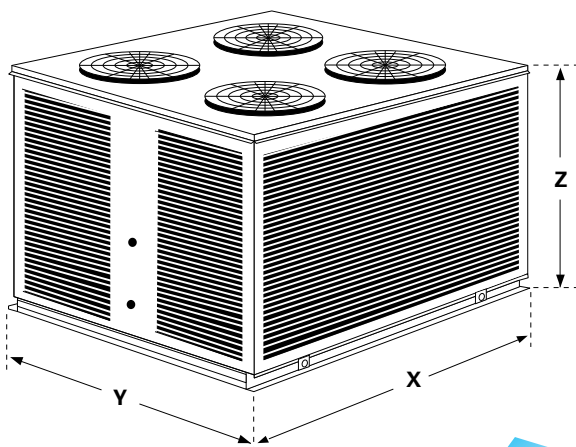
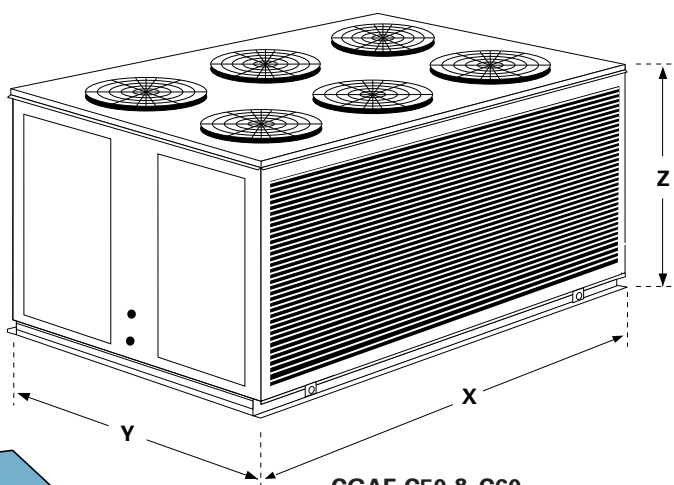
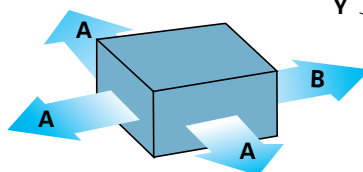
⁴ Does not include subcooling portion of coil.

CGA 120 -150



Minimum clearance around the perimeter of the unit is 3 feet.

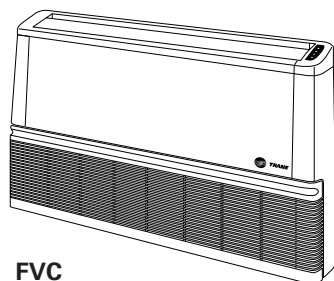
Model and size	CGA 120B	CGA 180B
Width x depth x height (X x Y x Z) (mm)	1300 x 983 x 964	2240 x 983 x 983
Weight (lb)	529	788
Evaporator Connection Type	NPTF	NPTF
Water Connection diameter (in)	1½	2


CGAF-C20

CGAF-C25

CGAF-C30 & C40

CGAF-C50 & C60


Model and size		CGAF	C20	C25	C30	C40	C50	C60
Dimensions	Length (X)	(mm)	2242	2242	2242	2242	2892	2892
	Width (Y)	(mm)	1527	1527	2245	2245	2245	2245
	Height (Z)	(mm)	1588	1727	1854	1854	1854	1854
	Clearance (A)	(mm)	2438	2438	2438	2438	2438	2438
	Clearance (B)	(mm)	1067	1067	1067	1067	1067	1067
Operating weight		(lbs)	2308	2563	3708	3944	4738	6474
Evaporator	Connection type	NPS Female						
	Water connection diameter	(Inch)	2	2	2½	2½	3	4

Chilled water terminals

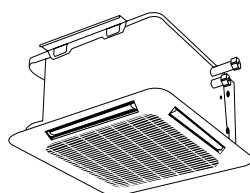
The water terminal range offers an ideal solution for all installation types. Comfort and silence are the key words for all this units. They can be fitted either on the floor or on the ceiling, visible or integrated in a false ceiling. Thanks to this solution using a hydraulic network, the installation becomes easier.



FVC

Capacity (MBH)

	04	06	08	10	12	14	16	20
(1)	11	17.2	25.5	29.4	35.7	42.7	50	56.9



CWS

Capacity (MBH)

	16	18	20	24	28	32	40
(1)	16	18	20	24	28	32	40



(1) 7/12°C Entering/Leaving water temp., 27/19°C DB/WB air temp. at medium speed.



AQUA STYLUS

The only visible parts of an installation are the chilled water terminals and even they know how to be discrete.

They can be integrated perfectly into the look of the room through installation in small spaces or false ceilings.

Hydronic heating is available in CFEA models.

FOR WHOM? FOR WHAT?

Trane offers two configuration which adapt to different building constraints.

Ceiling installation terminals, installed in false ceilings, an obvious solution for equipping offices, buildings ...



CWCS

TRANE'S ADVICE

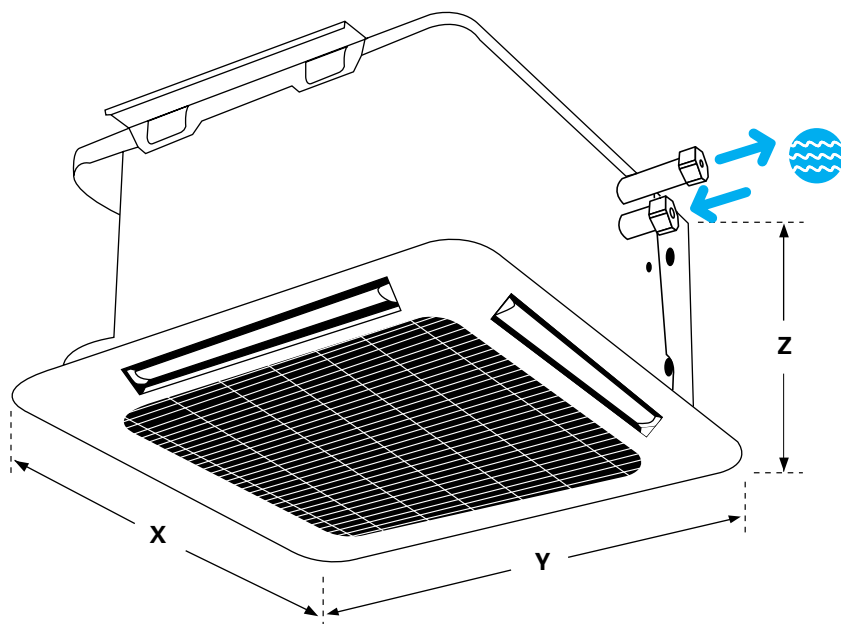
In order to choose the type and quantity of terminals needed, it is necessary to check carefully the air-conditioning profile.

CWCS 16 - 40

1.3 - 3.3 TR



Chilled water blower unit -Cassette type



Main features :

Popularity

- One dimension for all sizes
- 3/4" water connection same as general fan coil unit

Four-Direction below

Cover maximum area

Low Noise Design

Air-Foil blade centrifugal fan, high efficiency and quiet. Four walls coil even the air flow and reduce sound

Auto water pump

Auto drain water detection and pump out of drain pan

Filter

Easily clean PP Wavy filter

Model	Dimensions (mm)			Net weight (kg)
	X	Y	Z	
CWCS 16	840	840	340	26
CWCS 18	840	840	340	26
CWCS 20	840	840	340	29.5
CWCS 24	840	840	340	29.5
CWCS 28	840	840	340	29.5
CWCS 32	840	840	340	32
CWCS 40	840	840	340	32
Front panel	950	950	22	6

Model		CWCS 16	CWCS 18	CWCS 20	CWCS 24	CWCS 28	CWCS 32	CWCS 40
Cooling capacity ¹	(MBH)	16	18	20	24	28	32	40
Power supply		Single phase 220V / 50Hz; 220 V / 60Hz						
Fan		Centrifugal air foil fan / 135C thermal cutout						
Air flow high	CMM	17	21	17.5	21	27	26	34
Standard function		Drain pump; InfraRed Remote Control; PP waving filter						
Water								
Rated flow	LPM	13.5	15.2	16.5	20.9	23.2	27.2	34.9
Pressure drop	kg/cm2	0.5	0.6	0.2	0.4	0.6	0.5	0.5
Connection	inch	3/4" FPT inlet/outlet						
Drain pipe	inch	3/4" smooth plastic						

¹ Capacity test condition high speed; entering air 27 DB / 19.5 EB; chilled water entering 7C, leaving 12C.

LIGHT COMMERCIAL RANGE



CFEA

1 - 5 TR

AQUASTYLUS

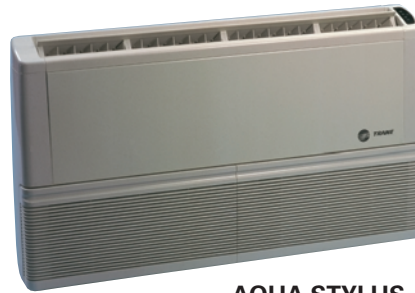
Main features :

Comfort and Reliability

- Full Capacity and Energy Savings.
- Washable Filter.
- Low Maintenance.
- Attractive Style.
- Effective Air Discharge.
- 3 Minute Anti-Recycle Timer helps to preserve the life of system components.
- Optional Electric Heater offers a better selection of the right unit to meet your needs.
- **NEW** hydronic heat option.
- Power Failure Recovery saves settings during a power failure and restarts the system automatically when power resumes.

Flexibility

- Aquastylus' convertible design allows for flexibility in installation. Aquastylus may be installed under the ceiling, low on the wall, or on the floor, depending on the space available in your room.



AQUA STYLUS

Water Temperature Rise (F)

Unit	EWT	10			
Size	Degree	TC	SC	GPM	PD
04	40	14.5	9.8	2.9	7.9
	45	11.0	8.3	2.2	4.8
	50	7.7	7.0	1.5	2.6
06	40	22.1	14.5	4.4	8.1
	45	17.2	12.3	3.4	5.2
	50	12.3	10.4	2.5	2.9
08	40	32.0	20.5	6.4	12.5
	45	25.5	17.5	5.1	8.3
	50	18.6	14.6	3.7	4.7
10	40	37.5	24.2	7.5	7.1
	45	29.4	20.5	5.9	4.6
	50	21.0	17.1	4.2	2.5
12	40	44.4	28.0	8.9	9.5
	45	35.7	23.9	7.1	6.4
	50	26.2	19.9	5.2	3.7
14	40	54.6	36.4	10.9	19.2
	45	42.7	31.2	8.5	12.3
	50	31.2	26.6	6.2	7.0
16	40	63.5	42.2	12.7	22.9
	45	50.0	36.3	10.0	14.8
	50	36.9	31.0	7.4	8.6
18	40	71.7	46.4	14.3	13.3
	45	56.9	39.7	11.4	8.7
	50	41.6	33.4	8.3	4.7

TC = Total Capacity, MBh

SC = Sensible Capacity, MBh

GPM = Water Flow, Gallon per Minute

PD = Water Pressure Drop, ft of water

Notes:

1. Air Entering Coil Conditions are 80/67 in FDB/FWB
2. Cooling capacities are rated at nominal CFM (Hi Fan Speed)
3. EWT = Entering Water Temp (F)

DIMENSIONS (HxVxD)	627x1085x243	627x1085x268	627x1335x268	627x1585x268	627x1585x268	627x1835x268	627x2085x268	627x2085x268
Uncrated (mm)								
WEIGHT (kg)								
Net (uncrated)								
Without Electric Heater	36	37	45	61	61	72	79	84
With Electric Heater	37	38	46	63	63	74	81	87

GENERAL DATA 220-240/1/50

INDOOR UNITS								
Model	CFEA04CO CFEA04CE(*)	CFEA06CO CFEA06CF(*)	CFEA08CO CFEA08CB(*)	CFEA10CO CFEA10CH(*)	CFEA12CO CFEA12CJ(*)	CFEA14CO CFEA14CJ(*)	CFEA16CO CFEA16CK(*)	CFEA20CO CFEA20CL(*)
Water Flow Rate (gpm)	2.4	3.6	4.8	6.0	7.2	8.4	9.6	12.0
Control Valve	Yes**	Yes**	Yes**	Yes**	Yes**	-	-	- Drain
Connection (in)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Air Flow (Hi/Med/Lo)								
CFM @ 0.0 in. wg	425/360/300	425/360/300	600/475/375	850/750/650	850/750/650	1,200/1,050/950	1,350/1,100/975	1,350/1,100/975
No Motors (HP)	1(1/20)	1(1/20)	1(1/10)	2(1/20)	2(1/20)	2(1/10)	2(1/10)	2(1/10)
R.L.Amps	0.36	0.42	0.56	2x0.54	2x0.54	2x0.69	2x0.69	2x0.69
L.R.Amps	0.48	0.59	0.67	2x0.89	2x0.89	2x2.28	2x2.28	2x2.28
Electric Heater Data(*)								
Heater Rating (kW)	2.0	2.5	3.5	4.0 (2 elem.)	5.0 (2 elem.)	5 (2 elements)	6 (2 elements)	7 (2 elements)

GENERAL DATA 220-240/1/60

INDOOR UNITS								
Model	CFEA04CO CFEA04CE(*)	CFEA06CO CFEA06CF(*)	CFEA08CO CFEA08CB(*)	CFEA10CO CFEA10CH(*)	CFEA12CO CFEA12CJ(*)	CFEA14CO CFEA14CJ(*)	CFEA16CO CFEA16CK(*)	CFEA20CO CFEA20CL(*)
Water Flow Rate (gpm)	2.4	3.6	4.8	6.0	7.2	8.4	9.6	12.0
Control Valve	Yes**	Yes**	Yes**	Yes**	Yes**	-	-	- Drain
Connection (in)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Air Flow (Hi/Med/Lo)								
CFM @ 0.0 in. wg	425/360/300	425/360/300	600/475/375	850/750/650	850/750/650	1,200/1,050/950	1,350/1,100/975	1,350/1,100/975
No Motors (HP)	1(1/20)	1(1/15)	1(1/10)	2(1/15)	2(1/15)	2(1/10)	2(1/10)	2(1/10)
Motor Speed (RPM)	1,080	1,150	1,200	1,350	1,350	1,450	1,450	1,450
V/Ph/Hz	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60
R.L.Amps	0.48	0.53	0.67	2x0.65	2x0.65	2x0.73	2x0.73	2x0.73
L.R.Amps	0.53	0.59	0.68	2x0.85	2x0.85	2x1.15	2x1.15	2x1.15
Electric Heater Data(*)								
Heater Rating (KW)	2.0	2.5	3.5	4.0 (2 elem.)	5.0 (2 elem.)	5 (2 elements)	6 (2 elements)	7 (2 elements)

(*) Models with electric heaters have an alphabetic letter in the eight digit, i.e., E, F, B, H, J, K and L.

MCA-Minimum Circuit Ampacity; calculated as follows: 125 % of heater R.L.Amps plus the fan motor R.L.Amps.

(**) The control valve is optional for vertical installation only.