



# TCD-TCH



## 5 - 20 TR 50 Hz, 12.5 - 25 TR 60 Hz

### 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) <sup>1</sup>	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) <sup>2</sup>	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 <sup>3</sup>	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



## 5 - 20 TR, 12.5 - 25 TR 60 Hz



### 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) <sup>1</sup>	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) <sup>2</sup>	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) <sup>3</sup>	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 <sup>4</sup>	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



# WCD-WCH

## R22 5 - 20 TR

### 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) <sup>1</sup>	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) <sup>2</sup>	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) <sup>3</sup>	8.6	8.6	8.8	9.0	9.0	9.2	9.2	9.2	9.4
Drain Connection No./Size in.	1 <sup>3</sup> / <sub>4</sub> PVC	1 <sup>3</sup> / <sub>4</sub> 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 <sup>4</sup>	12.5	14.3	11	12	12.3	18	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

### 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.

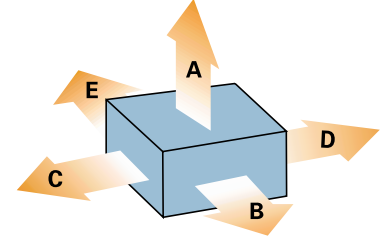
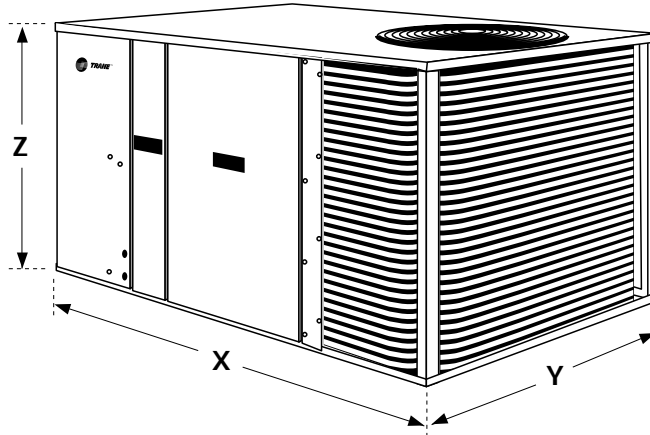
General Date - Model TC*	60 Hz					50 Hz				
	330	360	48	450	600	275	305	350	400	500
ARI Gross Cooling Cap. (MBH) <sup>1</sup>	329	363	417	513	616	279	304	375	409	505
Heating Output (MBH) <sup>2</sup>	486	486	486	648	648	405	405	405	542.7	542.7
First Stage (MBH) <sup>2</sup>	344.5	344.5	344.5	486	486	344.3	344.3	344.3	486	486
Steady State Efficiency (%) <sup>3</sup>	81	81	81	81	81	81	81	81	81	81
No. Burners/No. Stages <sup>2</sup>	2/2	2/2	2/2	2/2	2/2					
Gas Connection Pipe Size (in.) <sup>2</sup>	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 <sup>4</sup>	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

## LIGHT COMMERCIAL RANGE

## Impack (1.5 - 5 TR)



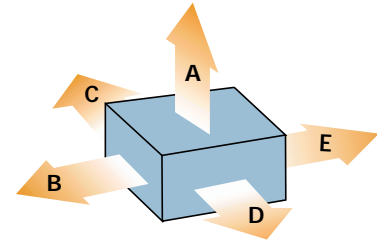
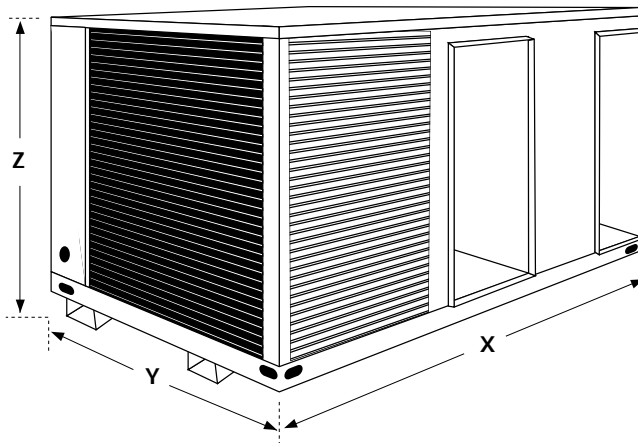
Model and size			TCC/YCC/WCC 018 - 042	TCC/YCC/WCC 048 - 060
Dimensions (1)	Length (X)	(mm)	1401	1633
	Width (Y)	(mm)	966	1195
	Height (Z)	(mm)	741	848
	Clearance (A)	(mm)		1900
	Clearance (B)	(mm)		1300
	Clearance (C)	(mm)		920
	Clearance (D)	(mm)		920
Clearance (E) (mm)		1300		

(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)

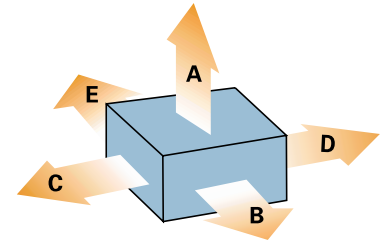
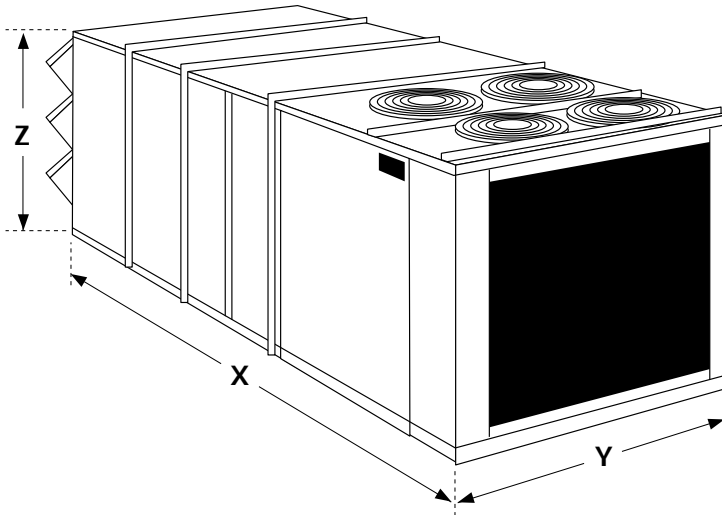


Model and size			TC*063	TC*073	TC*100	TC*180 TC*125	TC*180 TC*155	TC*210 TC*175	TC*240 TC*200	TC*300 TC*250
Dimensions (1)	Length (X)	(mm)	2215		2232	2395	2726			3107
	Width (Y)	(mm)		1260		1608	1811			2154
	Height (Z)	(mm)	889		1156	1245	1273			1372
	Clearance (A)	(mm)					1900			
	Clearance (B)	(mm)	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

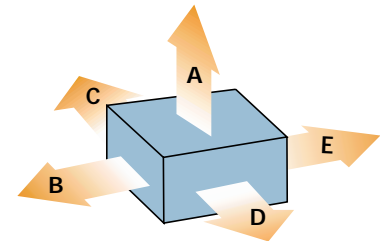
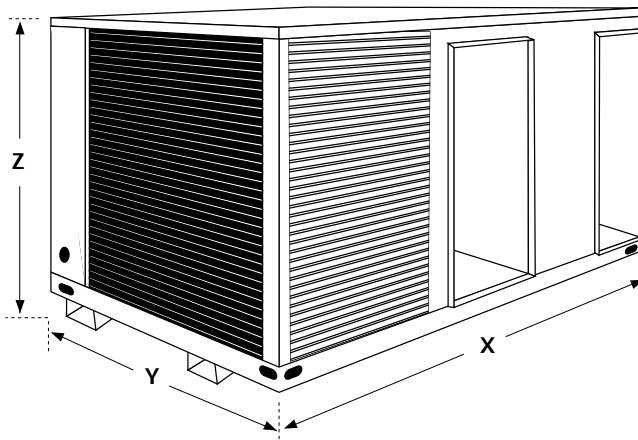
## TCD/TCH - TED/TEH (25 - 50 TR)



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
	TED/TEH	(kg)	1599/1619	1635	1673	2014	2090

(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)

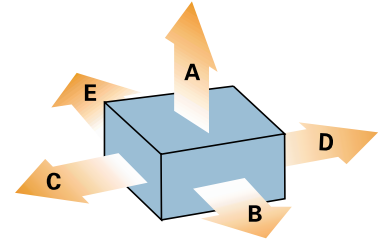
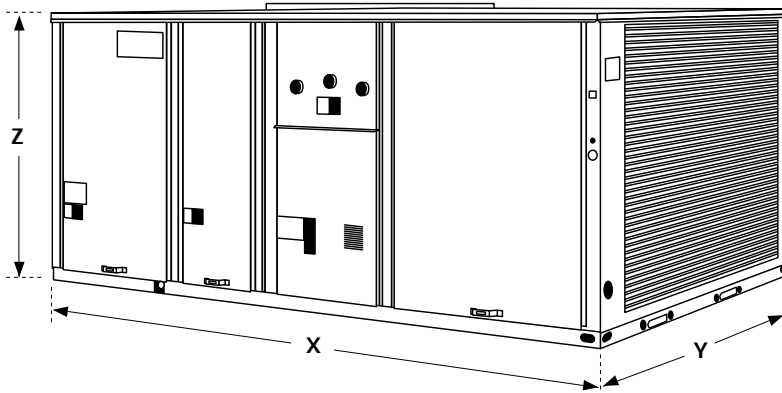


Model and size			WC 063	WC 073	WC 100	WC 125/150	WC 155/180	WC 200/240
Dimensions (1)	Length (X)	(mm)	2215		2395		2726	3107
	Width (Y)	(mm)	1260		1608		1811	2154
	Height (Z)	(mm)	889		1245		1273	1372
	Clearance (A)	(mm)			1900			
	Clearance (B)	(mm)	1300				1800	
	Clearance (C)	(mm)	920				1220	
	Clearance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

(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)

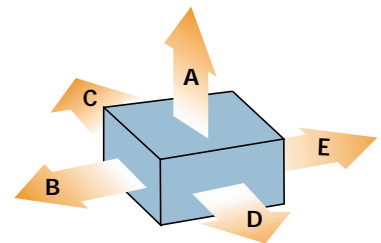
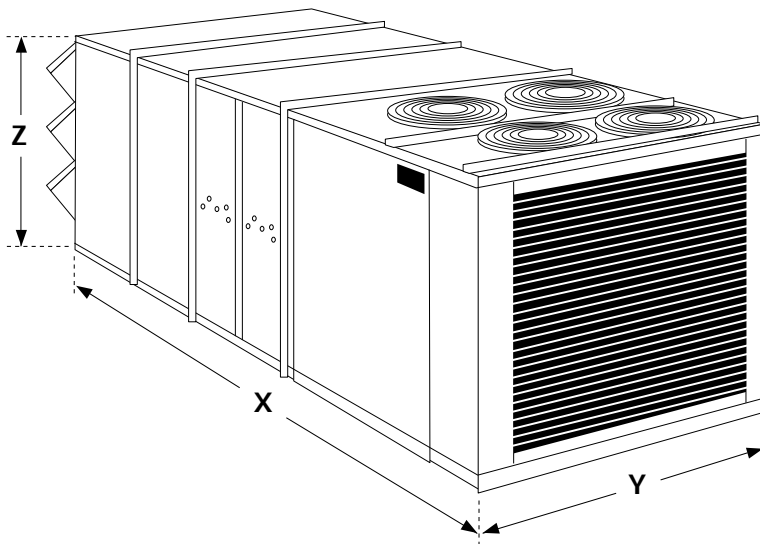


Model and size		063	073	089	100	150	180	210	240	300
Dimensions (1)	Length (X) (mm)		2215		2395		2726		3107	
	Width (Y) (mm)		1260		1608		1811		2167	
	Height (Z) (mm)		890		1245		1274		1372	
	Clearance (A) (mm)					1900				
	Clearance (B) (mm)		1300						1800	
	Clearance (C) (mm)		920						1220	
	Clearance (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