

50YZ (40BZ/38BZ)

SINGLE-PACKAGE HEAT PUMPS



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Physical data

50YZ Packaged unit		024	036	042	048	060	072	084
Nominal cooling capacity*	kW	6.20	8.90	10.10	11.56	14.34	19.10	22.20
Nominal heating capacity**	kW	6.52	9.50	11.30	12.50	16.84	21.80	25.00
Weight	kg	170	196	214	244	270	332	385
Compressor	Hermetic reciprocating compressor							
Refrigerant	R-407C							
Indoor section (40BZ)	Copper tubes, pre-treated aluminium fins							
Indoor fan (40BZ)	One ... centrifugal							
Nominal air flow	l/s	400	565	670	670	950	1320	1365
Outdoor section (38BZ)	Copper tubes, pre-treated aluminium fins							
Outdoor fan (38BZ)	One ... centrifugal							
Nominal air flow	l/s	530	800	865	865	1350	1650	1875
Indoor unit		40BZ 024	40BZ 036	40BZ 042	40BZ 048	40BZ 060	40BZ 072	40BZ 084
Outdoor unit		38BZ 024	38BZ 036	38BZ 042	38BZ 048	38BZ 060	38BZ 072	38BZ 084
Weight (indoor unit)	kg	58	63	71	76	87	116	120
Weight (outdoor unit)	kg	112	133	143	168	183	216	265

* Based on an outdoor air dry bulb temperature of 35°C and an indoor air wet bulb temperature of 19°C.

** Based on an outdoor air wet bulb temperature of 6°C and an indoor air dry bulb temperature of 20°C.

Electrical data

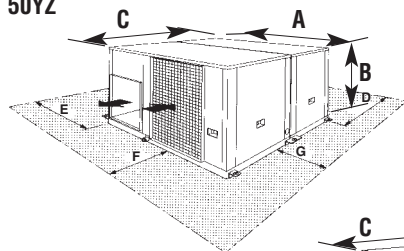
50YZ (40BZ + 38BZ)		024	036	042	048	060	072	084
Nominal voltage (±10%)*	V	230	400	230	400	230	400	230
Nominal power input								
Cooling**	kW	2.74	2.74	4.20	4.20	4.70	4.70	5.04
Heating***	kW	2.35	2.35	3.51	3.51	4.00	4.00	4.55
Nominal current drawn								
Cooling**	A	12.77	6.04	13.89	10.06	15.79	11.40	17.10
Heating***	A	11.21	5.30	12.00	8.87	14.14	10.60	15.76
Starting current	A	86	46	99	60	117	72	134

* The unit power supply is three-phase (except size 024, 230 V) which is single-phase). The fan power supply is single-phase, except for sizes 072 and 084 which are three-phase.

** Based on an outdoor air dry bulb temperature of 35°C and an indoor air wet bulb temperature of 19°C.

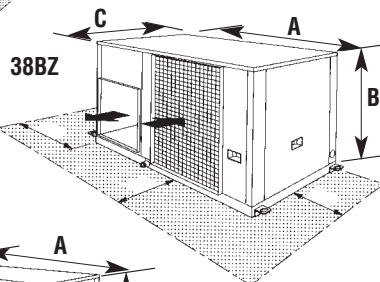
*** Based on an outdoor air wet bulb temperature of 6°C and an indoor air dry bulb temperature of 20°C.

50YZ



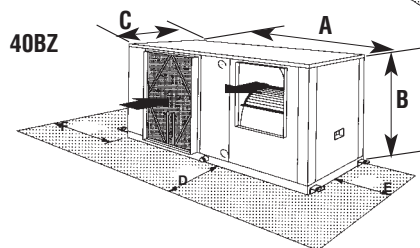
D: 800 mm
E: 500 mm
F: 600 mm
G*: 500 mm

* For size 50YZ 060
G: 600 mm



D: 600 mm
E: 500 mm
F: 500 mm

40BZ



D: 600 mm
E*: 500 mm
F: 500 mm

* For size 40BZ 060
E: 600 mm

Dimensions/clearances, mm

50YZ	A	B	C
024	1190	470	1199
036	1250	540	1259
042	1350	540	1359
048	1450	540	1459
060	1500	560	1509
072	1700	630	1709
084	1700	630	1889
38BZ	A	B	C
024	1190	470	714
036	1250	540	764
042	1350	540	814
048	1450	540	914
060	1500	560	964
072	1700	630	1008
084	1700	630	1188
40BZ	A	B	C
024	1190	470	508
036	1250	540	569
042	1350	540	619
048	1450	540	619
060	1500	560	619
072	1700	630	775
084	1700	630	775



FEATURES

- Seven sizes with nominal cooling capacities from 6.20 to 22.20 kW and nominal heating capacities from 6.52 to 25.00 kW.
- Compact low profile air-to-air heat pumps, designed for installation in the void above false ceilings.
- Units consist of the indoor unit 40BZ and the outdoor unit 38BZ.
- Unit cabinet made of prepainted sheet steel. All units include internal thermal and sound insulation.
- Interchangeable unit panels permit alternative supply and return air paths on all models.
- Easily transformed from packaged to split units.
- Quiet, centrifugal fans, statically and dynamically balanced for vibration-free operation.
- Reliable hermetic compressors for R-407C, include overcurrent and overtemperature protection and internal and external vibration isolators.
- Hermetically-sealed leak-tested refrigerant circuit with deoxidized and dehydrated copper tubes.
- Master Link II electronic control.

Operating limits

Cooling		
Zone	Dry bulb	Wet bulb
Indoor air temperature °C		
Maximum	35	21
Minimum	19	14
Outdoor air temperature °C		
Maximum	46	-
Minimum	19*	-
Heating		
Zone	Dry bulb	Wet bulb
Indoor air temperature °C		
Maximum	27	-
Minimum	-	-
Outdoor air temperature °C		
Maximum	24	18
Minimum	-15	-

* With optional head pressure control, the unit will operate at temperatures below 19°C.

OPTIONS/ACCESSORIES

- Head pressure control (option/accessory)
- Electric heaters (option/accessory)
- Hot water coil (option/accessory)
- Flare connections (option)
- Outdoor air filter (option/accessory)