

SPECIFICATIONS



Indoor Unit	(525-611-001 / 525-621-001)	ISD 465KB(H/V)
Outdoor Unit	(526-651-701)	OSA 465RKTBQV (fixed)
Cooling capacity (net) ¹		42.6 kW
Heating capacity ¹		44.0 kW
Electrical input - cooling		14.3 kW
Electrical input - heating		12.5 kW
EER / AEER (cooling) ¹		2.98 / 2.95
COP / ACOP (heating) ¹		3.53 / 3.51
Unit Controllers		UC6
Refrigerant		R410A
Refrigerant precharge for 10 m		7.6 kg/sys.
Additional charge req'd for over 10 m		100 g/m
Base refrigerant charge OSA		6.6 kg/sys.
Maximum line length		30 m (or 60 m) ³
Separation limit: OSA above ISD		20 m
Separation limit: OSA below ISD		20 m
Suction line		22 mm OD (x2)
Liquid line		13 mm OD (x2)
Compressor oil type		POE 32-3MAF (or equivalent)
Additional oil charge over 40m line length		20 ml/m
Compressor type		fixed scroll (x2)
Power supply via OSA ²		3 ph. 400V ac 50Hz + N + E
Compressor (3ph.) run amps ¹		11 A (x2)
Compressor overload setting		15 A (x2)
Indoor fan motor size		3 kW
Nominal airflow at rating conditions ¹		2550 l/s
Indoor fan motor (3ph.) - full load		6.2 A/ph.
Outdoor fan motor (1ph.) - full load		1.7 A (x4)
Outdoor fan motor type		EC axial
Outdoor fan max. static pressure		60 Pa ⁴
Control circuit breaker (internal)		2 A
Auxillary power outlet (1ph.) overload setting		10 A
Running amps (total system) ¹		31 / 25 / 25 A
Max. running amps (total system)		43 / 37 / 37 A
RCD type recommended		type A, 30mA, 3 pole
Net weight ISD		277 kg
Net weight OSA		445 kg

Accessories:

UC6 Service Interface tool	201-000-379
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Optional Controls:

TZT-100 Room temperature controller	201-000-350
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Refer to temperzone for other options, eg remote sensors, connection wires.

¹ Tested in accordance with AS/NZS 3823

² Voltage range: 380-440 V

³ Extra suction accumulation required.

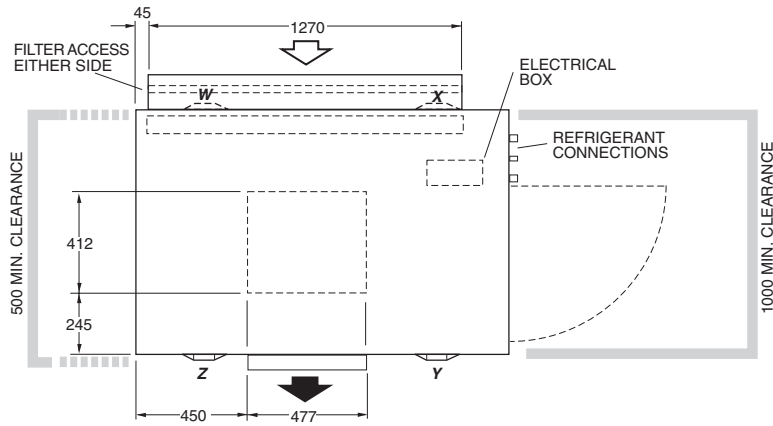
⁴ Contact Temperzone for assistance for higher static applications

DIMENSIONS (mm)

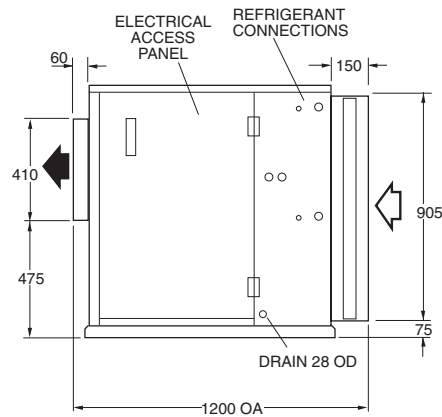
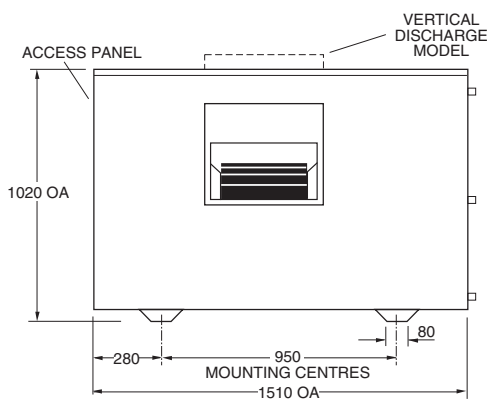


Not to Scale

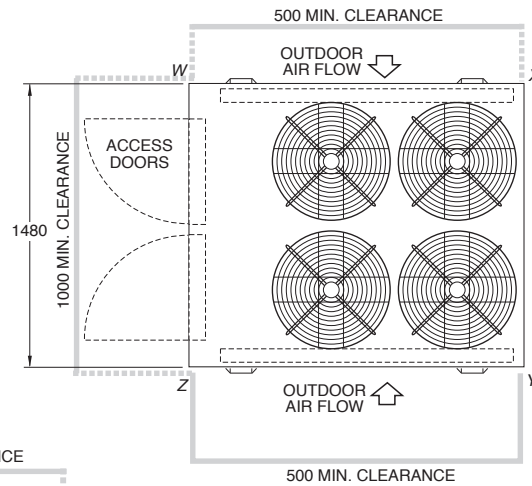
ISD 465KB(H/V)-P Indoor Unit



POINT LOADS (kg)			
W	X	Y	Z
57	74	82	64

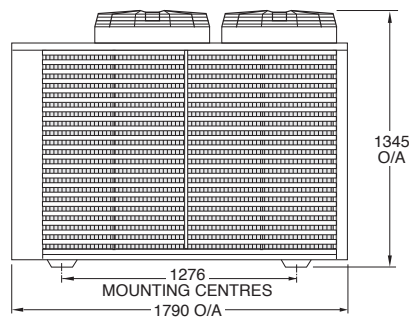
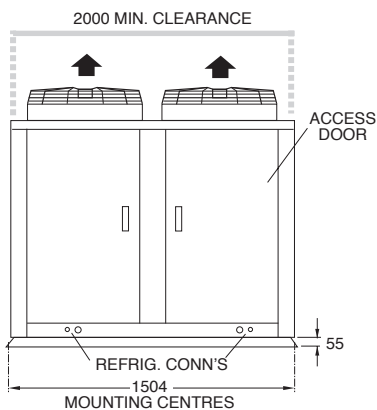


OSA 465RKTBQV Outdoor Unit



POINT LOADS (kg)			
W	X	Y	Z
146	77	77	145

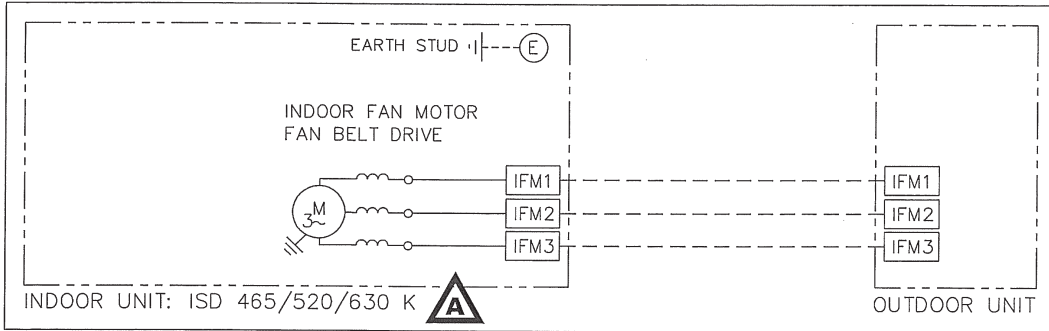
Recommended
Connecting Pipe Sizes
 Suction : 22 mm OD (x2)
 Liquid : 13 mm OD (x2)



NOTE

Specifications are subject to change without notice due to the manufacturer's ongoing research and development programme.

INDOOR UNIT WIRING



MODEL -	ISD	465 K	520 K	630 K	Title	ISD 465/520/630 K WIRING SCHEMATIC		
INDOOR FAN MOTOR FULL LOAD AMPS/PH		4.1	6.1	7.9				
NOTE: CHECK WIRING BEFORE SWITCHING ON, INCORRECT CONNECTION WILL DAMAGE MOTORS.	CLIENT WIRING	Interconnections between units by client. Double insulated multi-core cable.						
A ISD 465 ADDED TO TITLE	N2627	26-08-10	CMW	Drawn CMW				
ISSUE	MODIFICATION	ECN	DATE	APRVD	Scale			

OUTDOOR UNIT WIRING (2)

<p>Important Notes:</p> <p>1) Crankcase Heater Note 24 Hour power required (on L1) for control circuit and crankcase heaters</p> <p>2) Damper Terminal Note Y - 0-10 Volt DC GO - Common G - 24 Volt HOT</p> <p>3) Important Note Compressors fitted are directional. If rotation incorrect, compressor/s will not pump, be noisy, and draw minimal current. To correct rotation, reverse two phases.</p>	<p>ALC DIP Switch Settings FACTORY SETTING</p> <table border="1"> <tr> <td>DO NOT USE</td> <td>1</td> <td>OFF</td> <td>ON</td> <td>LEAVE OFF</td> </tr> <tr> <td rowspan="3">Lowest Speed Setting</td> <td>2</td> <td></td> <td></td> <td rowspan="3">3V</td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Highest Speed Setting</td> <td>5</td> <td></td> <td></td> <td rowspan="2">6V</td> </tr> <tr> <td>6</td> <td></td> <td></td> </tr> <tr> <td>DO NOT USE</td> <td>7</td> <td></td> <td></td> <td>LEAVE OFF</td> </tr> <tr> <td>DO NOT USE</td> <td>8</td> <td></td> <td></td> <td>LEAVE OFF</td> </tr> </table> <p>Note: ALC DIP switches should not be adjusted. Switches shall remain as per factory setting.</p>	DO NOT USE	1	OFF	ON	LEAVE OFF	Lowest Speed Setting	2			3V	3			4			Highest Speed Setting	5			6V	6			DO NOT USE	7			LEAVE OFF	DO NOT USE	8			LEAVE OFF	<table border="1"> <tr><td>24VCB</td><td>24 VOLT CIRCUIT BREAKER</td></tr> <tr><td>C12ER</td><td>COMPRESSOR 1&2 ENABLE RELAY</td></tr> <tr><td>CCB</td><td>CONTROL CIRCUIT BREAKER</td></tr> <tr><td>CCH</td><td>CRANKCASE HEATER</td></tr> <tr><td>CMC</td><td>COMPRESSOR CONTACTOR</td></tr> <tr><td>CMCB</td><td>COMPRESSOR CIRCUIT BREAKER</td></tr> <tr><td>CMM</td><td>COMPRESSOR MOTOR</td></tr> <tr><td>CMOL</td><td>COMPRESSOR OVERLOAD</td></tr> <tr><td>CR</td><td>COMPRESSOR RELAY</td></tr> <tr><td>HFR</td><td>HIGH FAN SPEED RELAY</td></tr> <tr><td>HR</td><td>HEAT 1/2 RELAY</td></tr> <tr><td>IFC</td><td>INDOOR FAN CONTACTOR</td></tr> <tr><td>IFCB</td><td>INDOOR FAN CIRCUIT BREAKER</td></tr> <tr><td>IFOL</td><td>INDOOR FAN OVERLOAD</td></tr> <tr><td>LFR</td><td>LOW FAN SPEED RELAY</td></tr> <tr><td>MFR</td><td>MED FAN SPEED RELAY</td></tr> <tr><td>OFCB</td><td>OUTDOOR FAN CIRCUIT BREAKER</td></tr> <tr><td>OFM</td><td>OUTDOOR FAN MOTOR</td></tr> <tr><td>PRC</td><td>PHASE ROTATION CONTROLLER</td></tr> <tr><td>PRR</td><td>PHASE ROTATION RELAY</td></tr> <tr><td>SPSCB</td><td>Single Phase Socket Circuit Breaker</td></tr> <tr><td>RV</td><td>REVERSING VALVE</td></tr> <tr><td>SPS</td><td>SINGLE PHASE SOCKET</td></tr> <tr><td>TR</td><td>TRANSFORMER</td></tr> <tr><td>UC6</td><td>UNIT CONTROLLER 6</td></tr> </table>	24VCB	24 VOLT CIRCUIT BREAKER	C12ER	COMPRESSOR 1&2 ENABLE RELAY	CCB	CONTROL CIRCUIT BREAKER	CCH	CRANKCASE HEATER	CMC	COMPRESSOR CONTACTOR	CMCB	COMPRESSOR CIRCUIT BREAKER	CMM	COMPRESSOR MOTOR	CMOL	COMPRESSOR OVERLOAD	CR	COMPRESSOR RELAY	HFR	HIGH FAN SPEED RELAY	HR	HEAT 1/2 RELAY	IFC	INDOOR FAN CONTACTOR	IFCB	INDOOR FAN CIRCUIT BREAKER	IFOL	INDOOR FAN OVERLOAD	LFR	LOW FAN SPEED RELAY	MFR	MED FAN SPEED RELAY	OFCB	OUTDOOR FAN CIRCUIT BREAKER	OFM	OUTDOOR FAN MOTOR	PRC	PHASE ROTATION CONTROLLER	PRR	PHASE ROTATION RELAY	SPSCB	Single Phase Socket Circuit Breaker	RV	REVERSING VALVE	SPS	SINGLE PHASE SOCKET	TR	TRANSFORMER	UC6	UNIT CONTROLLER 6
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