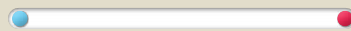




Air Cooled Packaged Units Technical Data

OPA 465, OPA 550, OPA 705, OPA 800, OPA 855, OPA 960



Cooling Capacity
46.7kW - 96.0kW

Heating Capacity
43.5kW - 90.0kW

Air cooled packaged units

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Air cooled packaged units

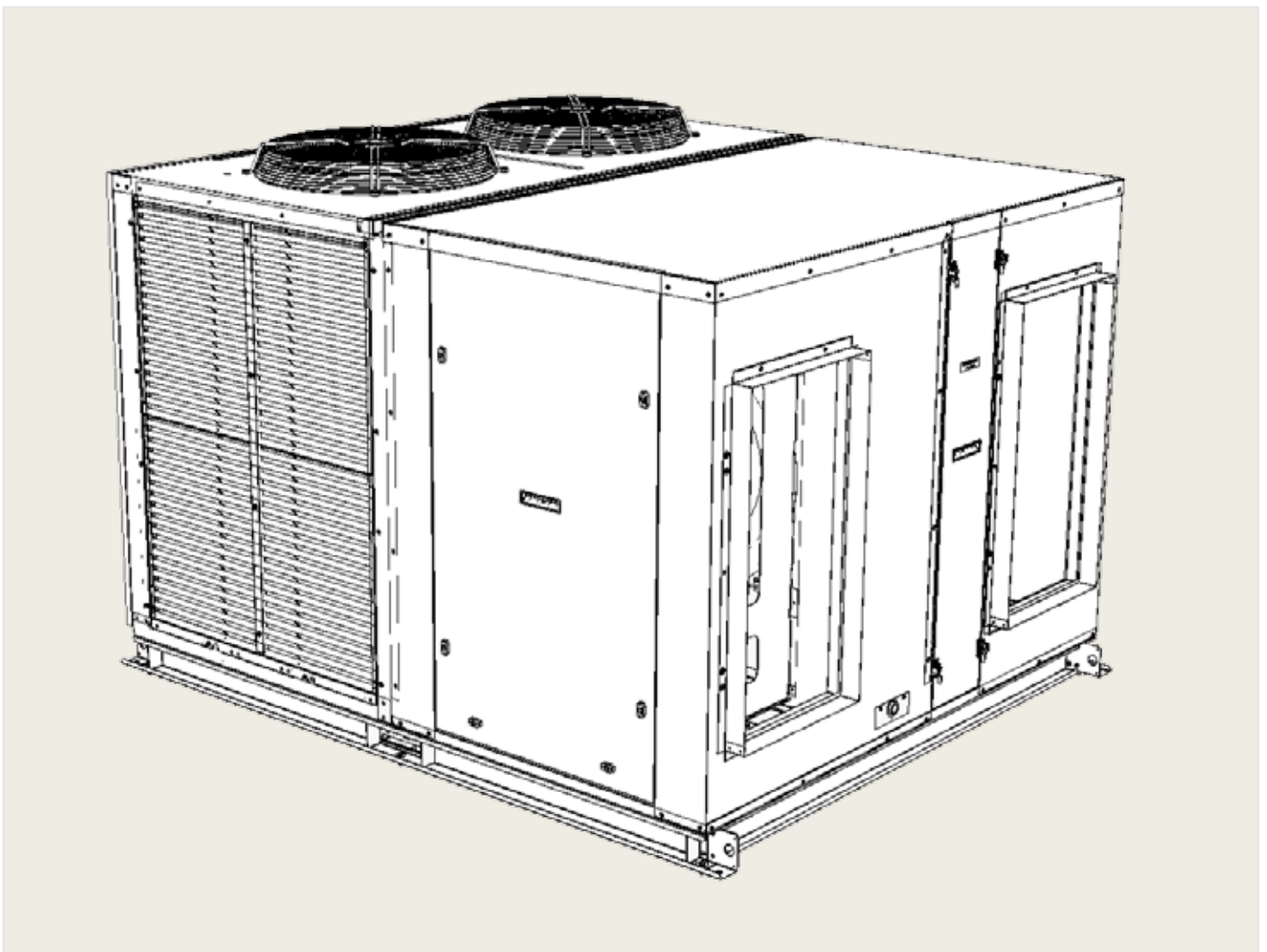
OPA 465 - 960



Reverse Cycle (heat pump) packaged air conditioners

Complies with AS/NZS 3823 specified conditions

Designed and tested to operate at 50°C ambient in cooling mode and -15°C in heating mode



Air cooled packaged units

OPA 465 - 960



Applications

Specifically developed for air conditioning of commercial premises i.e. supermarkets, shopping malls, auditoriums and restaurants

AIR FLOW SELECTION

If air returning to the indoor coil is regularly expected to be above 50% relative humidity then the coil face velocity should be limited to 2.5m/s or less (refer fan curves page 8 & 9).

Consideration must be given to selecting a airflow and coil face velocity that avoids water carry - over problems, i.e. in high humidity (tropical/subtropical) conditions or when heavily moisture laden fresh air is introduced.

Applications using complete or high proportion of fresh air should be discussed with a Temperzone sales engineer to establish the correct selection of unit.

FEATURES

Refrigerant R410A

R410A used which has zero ozone depletion potential.

Economy

The units have 2 independent refrigeration circuits to provide the flexibility & economy of 2 stage operation i.e. utilizing 1 or 2 circuits as conditions vary plus staggered starting.

An economiser option is available to comply with the National Construction Code.

Efficiency

Heat exchange coils incorporate inner grooved (rifled) tube for superior heat transfer.

The indoor coil is interlaced for efficient part load performance.

Performance

An adjustable pulley is fitted on the indoor fan motor to allow for easy adjusting of the airflow during air balancing & commissioning

A variable speed head pressure control is used, ensuring the condenser airflow is

suited to the pressures within the refrigerant circuit. This also allows for reliable operation in Cooling Mode at ambients below 20°C, and Heating mode above 15°C.

Quiet

Generous use of insulation ensures a quiet unit.

Insulation

Closed cell foam insulation is used in indoor air section to ensure no particles in the air stream. The insulation is foil faced & meets fire test standards AS1530.3 (1999) & BS 476 parts 6 & 7.

Durable

The cabinet and drain tray are constructed from high grade galvanized steel-polyester powdered coated (Grey) for all weather protection. External fasteners are stainless steel.

Heat exchange coils comprise aluminium plate fins on mechanically expanded rifled copper tube.

Outdoor & indoor coil fins are epoxy coated for extra protection in corrosive environments i.e. salt laden sea air.

Fan motor bearings are sealed for life so as not to incur regular maintenance.

Easy Access

These packaged outdoor units are typically installed on a rooftop, where maintenance access is relatively easy during operating hours.

Self Diagnosis

The unit controller (UC6) has a display of LEDS to indicate faults & running conditions. A common fault indicator is included for interface to external systems.

Air cooled packaged units

OPA 465 - 960



CONFIGURATIONS

The units are supplied as standard as left hand supply air (as facing the supply air spigot), with right hand available as an option. We can also supply alternative location for of the supply air and return air openings as per the chart below

Spigot Position

Models	Supply Air				Return Air			
	Front	Top	Side	Bottom	Front	Top	Side	Bottom
OPA 465	Std	Opt	Opt	Opt	Std	Opt	Opt	Opt
OPA 550	Std	Opt	Opt	Opt	Std	Opt	Opt	Opt
OPA 705	Std	Opt	Opt	Opt	Std	Opt	Opt	Opt
OPA 800	Std	Opt	Opt	Opt	Std	Opt	Opt	Opt
OPA 855	Std	Opt	Opt	Opt	Std	Opt	Opt	Opt
OPA 960	Std	Opt	Opt	Opt	Std	Opt	Opt	Opt

OPTIONAL EQUIPMENT

1. Plug fan / EC Motor
2. Coil protection guards protect against accidental damage or vandalism; supplied on OPA465
3. TZT-100 thermostat
4. Digital compressor replaces one of the 2 compressors – for close control applications
5. Filters rated to AS1324.1.2001
6. Factory fitted economiser -includes dampers,weatherhood
7. Electronic control systems (available by arrangement) for temperature and economy cycle
8. Adjustable fresh air damper and weatherhood
9. Interface to BMS via Modbus 485 or BACnet/UCP/IP networks

SAFETY FEATURES

1. HP & loss of refrigerant protection
2. Anti rapid cycle timer internal overload for compressor protection
3. Circuit breaker control circuits
4. Time & temperature controlled electronic de-ice switch prevents icing up of the outdoor coil during heating cycle
5. Frost protection on cooling cycle
6. Sensor fault indication
7. Crankcase heater prevents liquid refrigerant condensing in the compressors during the "off" cycle
8. Compressor minimum run time to ensure oil return
9. 24V control circuit
10. Phase rotation protection device

COMPRESSOR

Each high efficiency scroll type compressor is hermetically sealed quiet running and supported on rubber mounts to minimize vibration

REFRIGERATION SYSTEM

Factory charged with HFC-410A (R410A) refrigerant.

WIRING

The electrical supply required (including voltage fluctuation limits) is 3 phase 342-436V ac 50Hz.

The units control panel is fully wired ready to accept the main power supply.

ECONOMISER OPTION

The factory fitted Economizer Damper Option is supplied with Drive Open / Drive Closed damper motors. Temperzone can supply or supply and fit controls to manage the operation of the Economy Cycle, using either temperature or enthalpy to control the operation of the dampers. For the best result, discuss with your Temperzone Sales Engineer.

Air cooled packaged units

Performance Data



COOLING CAPACITY (KW)

Total = Total Capacity (kW).
 Sens. = Sensible Capacity (kW).
 E.A.T. = Entering Air Temperature.
 ○ = Nominal Capacity (kW).

Note: Capacities are **gross** and do not include allowance for fan motor heat loss.

See below for Indoor Air Flow Correction factors

Models	Indoor Fan	Indoor coil		Outdoor coil entering air temperature °C D.B.											
		E.A.T.		23		27		31		35		39		43	
		D.B. °C	W.B. °C	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.
OPA 465	2500	21	15	45.8	36.2	45.2	36.2	43.9	35.5	41.9	34.3	39.1	32.4	35.7	29.9
		23	17	48.2	35.4	47.6	35.4	46.3	34.8	44.3	33.7	41.5	32.0	38.1	29.7
		27	19	50.7	40.5	50.1	40.6	48.8	40.0	46.7	38.8	44.0	36.9	40.5	34.4
		31	21	53.1	48.0	52.5	48.0	51.2	47.4	49.1	46.1	46.4	44.0	42.9	41.2
OPA 550	2800	21	15	55.1	43.5	54.3	43.5	52.8	42.7	50.3	41.2	47.0	39.0	42.9	36.0
		23	17	58.0	42.5	57.3	42.5	55.7	41.8	53.2	40.5	49.9	38.4	45.7	35.7
		27	19	60.9	48.7	60.2	48.7	58.6	48.0	56.1	46.6	52.8	44.4	48.7	41.4
		31	21	63.8	57.7	63.1	57.7	61.5	57.0	59.1	55.4	55.8	52.9	51.6	50.1
OPA 705	3700	21	15	68.3	53.9	67.4	53.9	65.4	53.0	62.4	51.1	58.3	48.4	53.1	44.6
		23	17	71.9	52.7	71.0	52.7	69.0	51.9	66.0	50.2	61.9	47.7	56.8	44.2
		27	19	75.5	60.4	74.6	60.4	72.7	59.6	69.7	57.8	65.5	55.1	60.4	51.3
		31	21	79.1	71.5	78.2	71.6	76.3	70.7	73.3	68.7	69.2	65.6	64.0	61.5
OPA 800	4250	21	15	77.2	61.0	76.2	61.0	74.0	59.9	70.6	57.9	66.0	54.7	60.1	50.5
		23	17	81.3	59.6	80.3	59.6	78.1	58.7	74.7	56.8	70.1	53.9	64.2	50.0
		27	19	85.4	68.4	84.4	68.4	82.2	67.4	78.7	65.4	74.1	62.3	68.3	58.1
		31	21	89.5	80.9	88.5	81.0	86.3	80.0	82.9	77.7	78.2	74.3	72.4	69.5
OPA 855	4200	21	15	83.9	65.9	82.9	62.5	80.4	64.4	76.7	62.2	71.6	59.0	65.4	54.3
		23	17	88.4	64.4	87.3	64.4	85.1	63.4	81.1	61.2	76.3	58.3	69.8	53.9
		27	19	92.8	74.1	91.7	73.9	89.5	72.3	85.1	70.6	80.7	67.0	74.1	62.6
		31	21	97.5	87.3	96.4	87.3	93.9	86.2	90.2	83.6	85.1	80.0	78.9	74.9
OPA 960	5200	21	15	94.8	74.4	93.5	74.4	90.6	72.8	86.5	70.3	80.8	66.6	73.7	61.3
		23	17	99.7	72.8	98.5	72.8	96.0	71.5	91.5	69.1	86.1	65.8	78.7	60.9
		27	19	104.6	83.6	103.4	83.4	100.9	82.1	96.0	79.7	91.1	75.6	83.6	70.7
		31	21	110.0	98.5	108.8	98.5	105.9	97.3	101.8	94.4	96.0	90.3	89.0	84.6

INDOOR AIR FLOW CORRECTION FACTORS @ NOMINAL CONDITIONS

Indoor Air Flow (%)

	-20%	-10%	Rated	+10%
Total Capacity	0.95	0.975	1.0	1.025
Sensible Capacity	0.89	0.950	1.0	1.050

Air cooled packaged units

Performance Data



HEATING CAPACITY (KW)

G = Gross Heating Capacity kW, based on nominal air flow.

N = Net Heating Capacity kW allowing for average defrost.

○ = Nominal Capacity (kW).

Models	Indoor Entering Air Temp. °C		Outdoor coil entering air temperature °C D.B.														
	D.B.	-5		-3		-1		1		3		5		7		9	
		G	N.	G	N.	G	N.	G	N.	G	N.	G	N.	G	N.	G	N.
OPA 465	15	29.7	25.5	32.2	27.2	34.4	27.5	36.6	28.2	38.8	28.5	41.7	33.3	44.4	44.4	46.6	46.6
	20	29.2	25.1	31.6	26.6	33.7	26.9	35.9	27.6	38.1	28.0	40.9	30.7	43.5	43.5	45.7	45.7
	25	28.1	24.1	30.4	25.7	32.5	26.0	34.6	26.6	36.7	26.9	39.4	29.5	41.9	41.9	44.0	44.0
OPA 550	15	33.9	29.1	36.6	31.0	39.2	31.3	41.7	32.1	44.2	32.5	47.5	37.9	50.5	50.5	53.1	53.1
	20	33.2	28.5	35.9	30.3	38.4	30.7	40.9	31.5	43.3	31.9	46.6	34.9	49.5	49.5	52.0	52.0
	25	32.0	27.5	34.6	29.2	37.0	29.6	39.4	30.3	41.7	30.7	44.8	33.6	47.7	47.7	50.1	50.1
OPA 705	15	46.1	41.4	49.8	44.8	53.3	47.4	56.7	48.7	60.1	51.4	64.6	61.4	68.7	68.7	72.2	72.2
	20	45.1	40.6	48.9	44.0	52.2	46.5	55.6	47.8	59.0	50.4	63.3	60.2	67.5	67.4	70.8	70.8
	25	43.5	39.1	47.0	42.3	50.3	44.8	53.5	46.0	56.8	48.5	61.0	57.3	64.9	64.9	68.1	68.1
OPA 800	15	48.3	43.4	52.3	47.1	55.9	49.7	59.5	51.2	63.1	54.0	67.8	64.4	72.1	72.1	75.7	75.7
	20	47.4	42.6	51.3	46.1	54.8	48.8	58.3	50.2	61.9	52.9	66.5	63.1	70.7	70.7	74.2	74.2
	25	45.6	41.1	49.4	44.4	52.8	47.0	56.2	48.3	59.6	50.9	64.0	60.2	68.1	68.1	71.5	71.5
OPA 855	15	58.8	51.5	62.1	50.9	65.5	51.7	68.8	55.0	72.2	62.0	75.6	73.9	78.9	78.9	82.3	82.3
	20	57.9	50.8	61.3	50.2	64.6	51.0	68.0	54.3	71.3	61.4	74.7	73.2	78.0	78.0	81.4	81.4
	25	56.1	49.4	59.4	48.7	62.8	49.5	66.1	52.9	69.5	59.9	72.8	71.7	76.2	76.2	79.5	79.5
OPA 960	15	61.5	53.8	66.6	57.2	71.2	58.7	75.8	59.9	80.3	60.7	86.3	67.1	91.8	71.6	96.4	96.4
	20	60.3	52.7	65.3	56.2	69.8	57.5	74.3	58.7	78.8	59.5	84.6	61.7	90.0	70.2	94.5	94.5
	25	58.1	50.9	62.8	54.0	67.1	55.4	71.5	56.5	75.9	57.2	81.5	59.5	86.7	67.6	91.0	91.0

Air cooled packaged units

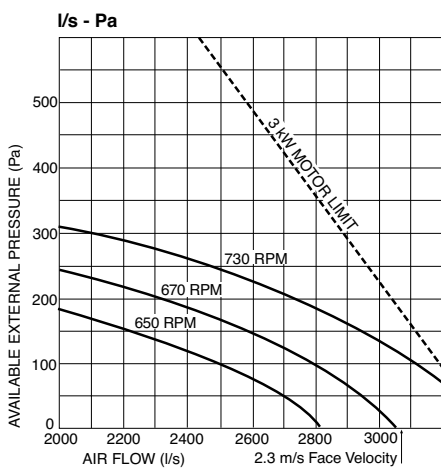
Performance Data



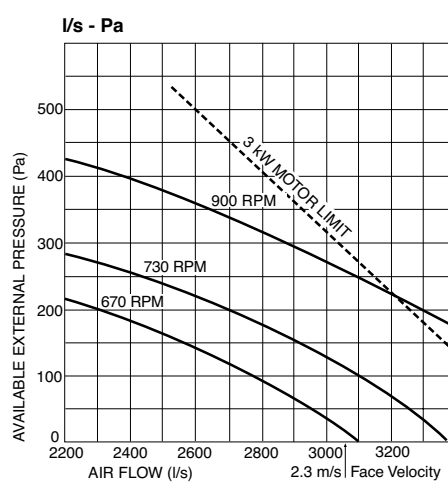
AIR HANDLING – BELT DRIVE MODELS

Note: Airflows are for a dry coil. Reduce airflow by 5% in high moisture removal conditions. In a free blow or low resistance application, beware of exceeding indoor fan motor's full load amp limit (refer to page 18). As filters are optional, the fan air flows given are for units installed without filters.

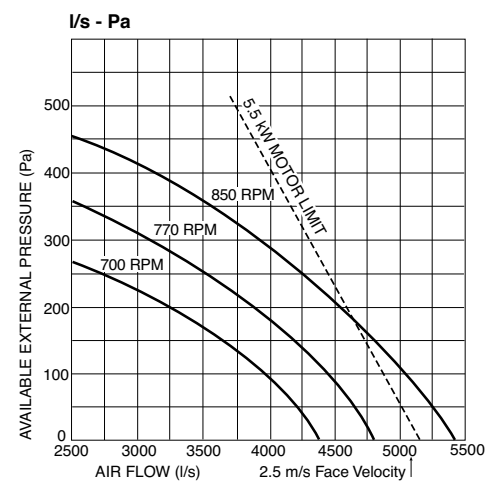
OPA 465RKTB



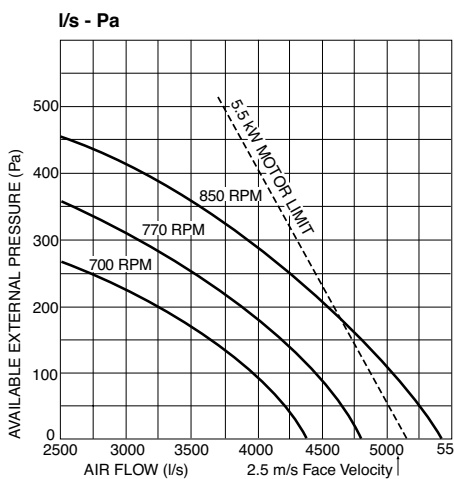
OPA 550RKTB



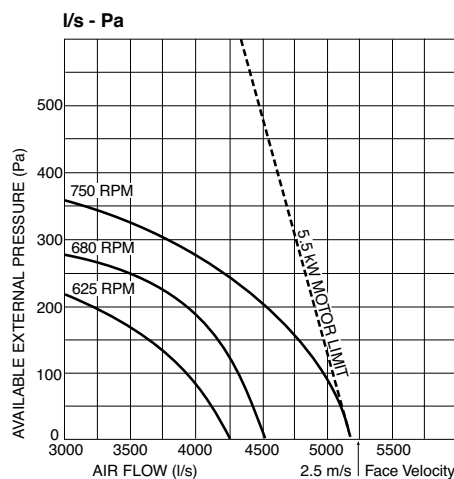
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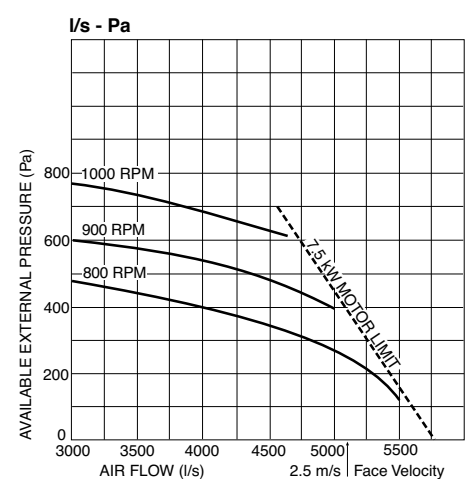
OPA 800RKTB



OPA 855RKTB



OPA 960RKTB



Model :		OPA 465	OPA 550	OPA 705	OPA 800	OPA 855	OPA 960
Std Motor Size	kW	3	3	5.5	5.5	5.5	7.5
Max. D.O.L. Motor	kW	4	4	7.5	7.5	7.5	7.5
Max. Fan Speed	RPM	850	950	1000	1000	950	1000
Std Pulley Range	RPM	610–765	690–875	780–970	780–970	600–750	780–970
Factory Setting	RPM	685	785	825	825	680	825

Air cooled packaged units

Performance Data

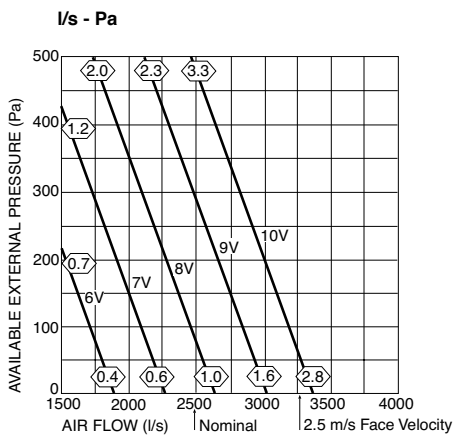


AIR HANDLING - PLUG FAN OPTION

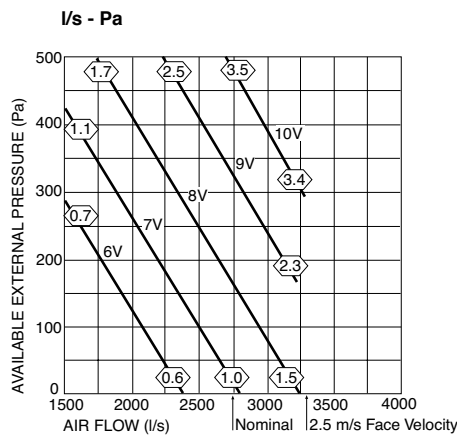
Note: Airflows are for a dry coil. Reduce airflow by 5% in high moisture removal conditions. In a free blow or low resistance application, beware of exceeding indoor fan motor's full load amp limit (refer to page 18). As filters are optional, the fan air flows given are for units installed without filters.

Kilowatts

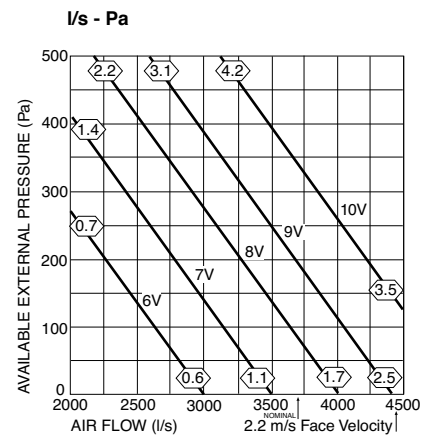
OPA 465RKTG-P



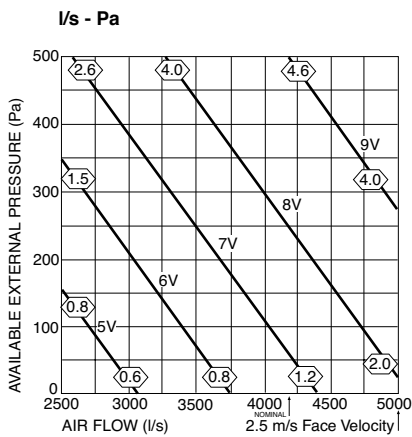
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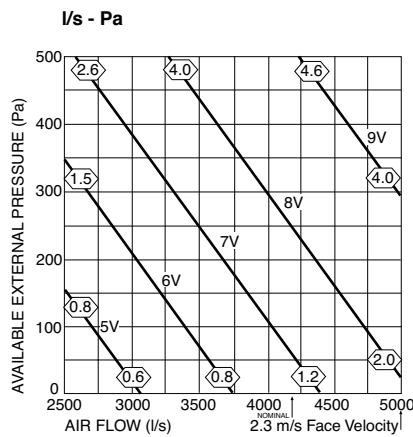
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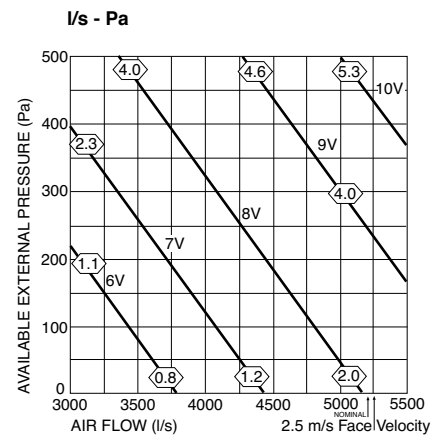
OPA 800RKTG-P



OPA 855RKTG-P



OPA 960RKTG-P



Air cooled packaged units

Performance Data



SOUND LEVELS - OUTDOOR

Sound Power Levels (SWL) - Radiated

Measured in decibels re 1 picowatt, at nominal airflow.

Models	OUTDOOR FAN SPEED	SWL dB(A)	OCTAVE BAND FREQUENCY Hz					
			125	250	500	1K	2K	4K
OPA 465	HIGH	78	84	78	76	74	69	61
OPA 550	HIGH	84	85	80	80	79	77	69
OPA 705	HIGH	82	84	83	78	75	67	61
OPA 800	HIGH	82	85	80	79	78	73	66
OPA 855	HIGH	84	82	81	82	79	76	71
OPA 960	HIGH	85	78	77	80	81	79	77

Sound Pressure Levels (SPL)

Measured in decibels re 20 μ Pa, at nominal airflow.

Models	OUTDOOR FAN SPEED	SPL @ 3m dB(A)	OCTAVE BAND FREQUENCY Hz					
			125	250	500	1K	2K	4K
OPA 465	HIGH	62	68	62	60	58	54	47
OPA 550	HIGH	68	69	64	64	63	61	53
OPA 705	HIGH	64	68	67	62	59	51	45
OPA 800	HIGH	66	69	64	63	62	57	50
OPA 855	HIGH	66	64	63	64	61	58	53
OPA 960	HIGH	67	73	66	64	62	57	49

Air cooled packaged units

Performance Data



SOUND LEVELS - INDOOR

Sound Power Levels (SWL) - Supply Air Outlet

Test Conditions: BS 848 PT2 1985.

Direct method of measurement (reverberant room).

Installation Type A (free inlet and outlet).

Measured in decibels re 1 picowatt.

Models	INDOOR FAN SPEED	SWL dB(A)	OCTAVE BAND FREQUENCY Hz					
			125	250	500	1K	2K	4K
			SOUND POWER LEVELS (SWL) dB					
OPA 465	750 RPM	83	79	79	78	79	76	75
OPA 550	830 RPM	85	79	77	79	81	78	77
OPA 705	750 RPM	81	80	81	78	78	76	73
OPA 800	850RPM	86	87	85	82	88	80	77
OPA 855	750 RPM	84	82	83	82	79	76	72
	800 RPM	90	88	89	88	86	82	78
OPA 960	800 RPM	86	84	85	84	81	78	74
	850 RPM	92	90	91	90	87	84	80

Air cooled packaged units

Performance Data



SOUND LEVELS - OUTDOOR - PLUG FAN OPTION

Sound Power Levels (SWL) - Radiated

Measured in decibels re 1 picowatt, at nominal airflow.

Models	OUTDOOR FAN SPEED	SWL dB(A)	OCTAVE BAND FREQUENCY Hz					
			125	250	500	1K	2K	4K
OPA 465	HIGH	78	84	78	76	74	69	61
OPA 550	HIGH	84	85	80	80	79	77	69
OPA 705	HIGH	82	82	81	82	79	76	71
OPA 800	HIGH	82	85	80	79	78	73	66
OPA 855	HIGH	84	82	81	82	79	76	71
OPA 960	HIGH	85	78	77	80	81	79	77

Sound Pressure Levels (SPL)

Measured in decibels re 20 μ Pa, at nominal airflow.

Models	OUTDOOR FAN SPEED	SPL @ 3m dB(A)	OCTAVE BAND FREQUENCY Hz					
			125	250	500	1K	2K	4K
OPA 465	HIGH	62	68	62	60	58	54	47
OPA 550	HIGH	68	69	64	64	63	61	53
OPA 705	HIGH	66	64	63	64	61	58	53
OPA 800	HIGH	66	69	64	63	62	57	50
OPA 855	HIGH	66	64	63	64	61	58	53
OPA 960	HIGH	67	73	66	64	62	57	49

SOUND LEVELS - INDOOR - PLUG FAN OPTION

Sound Power Levels (SWL) - Supply Air Outlet

Test Conditions: BS 848 PT2 1985.

Installation Type A (free inlet and outlet).

Direct method of measurement (reverberant room).

Measured in decibels re 1 picowatt.

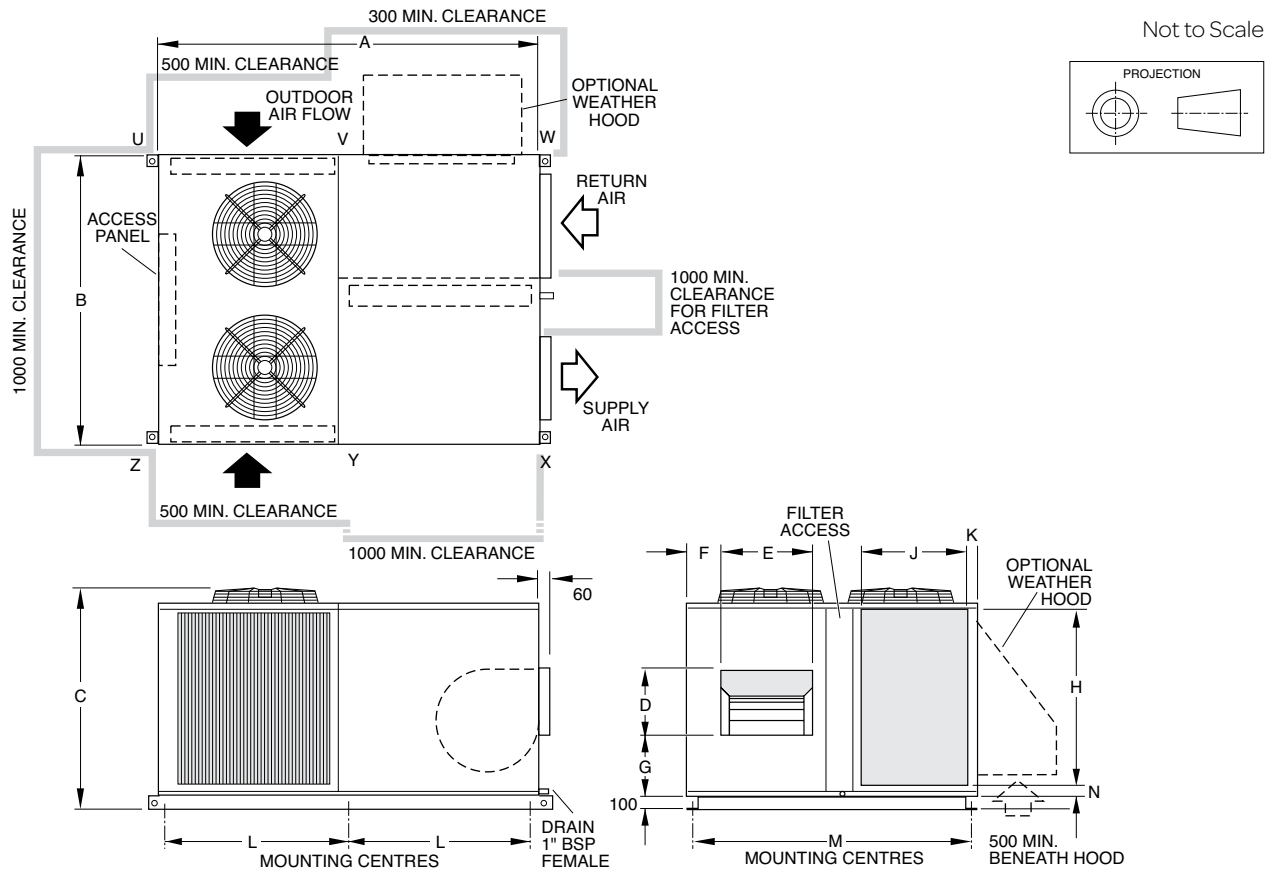
Models	INDOOR AIRFLOW @ 300Pa Static	SWL dB(A)	OCTAVE BAND FREQUENCY Hz					
			125	250	500	1K	2K	4K
OPA 465	2500 l/s	83	84	81	81	77	73	70
OPA 550	2800 l/s	79	77	78	77	73	70	64
OPA 705	3700 l/s	83	81	81	82	79	72	69
OPA 800	4250 l/s	83	84	82	83	78	74	70
OPA 855	4200 l/s	83	84	82	83	78	74	70
OPA 960	5200 l/s	87	87	85	86	82	78	75

Air cooled packaged units

Dimensions (mm)



FIG. 1 OPA *RKTBH - HORIZONTAL SUPPLY & RETURN AIR



MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N
OPA 465	2225	1950	1635	532	443	195	585	955	497	135	1080	1879	210
OPA 550	2225	1950	1750	535	483	190	590	955	497	135	1080	1879	210
OPA 705	2790	2150	1860	479	558	235	615	1200	596	130	1364	2079	266
OPA 855	2790	2150	1860	479	558	235	615	1200	596	130	1364	2079	266
OPA 960	2790	2150	1860	479	558	235	615	1200	596	130	1364	2079	266

POINT LOAD (kg)

Model	U	V	W	X	Y	Z
OPA 465	130	120	110	134	147	159
OPA 550	160	136	111	132	148	164
OPA 705	189	179	179	214	213	226
OPA 855	172	172	184	207	207	221
OPA 960	206	194	194	231	230	246

Note: The OPA 705, 855, 960 models have four outdoor air fans.

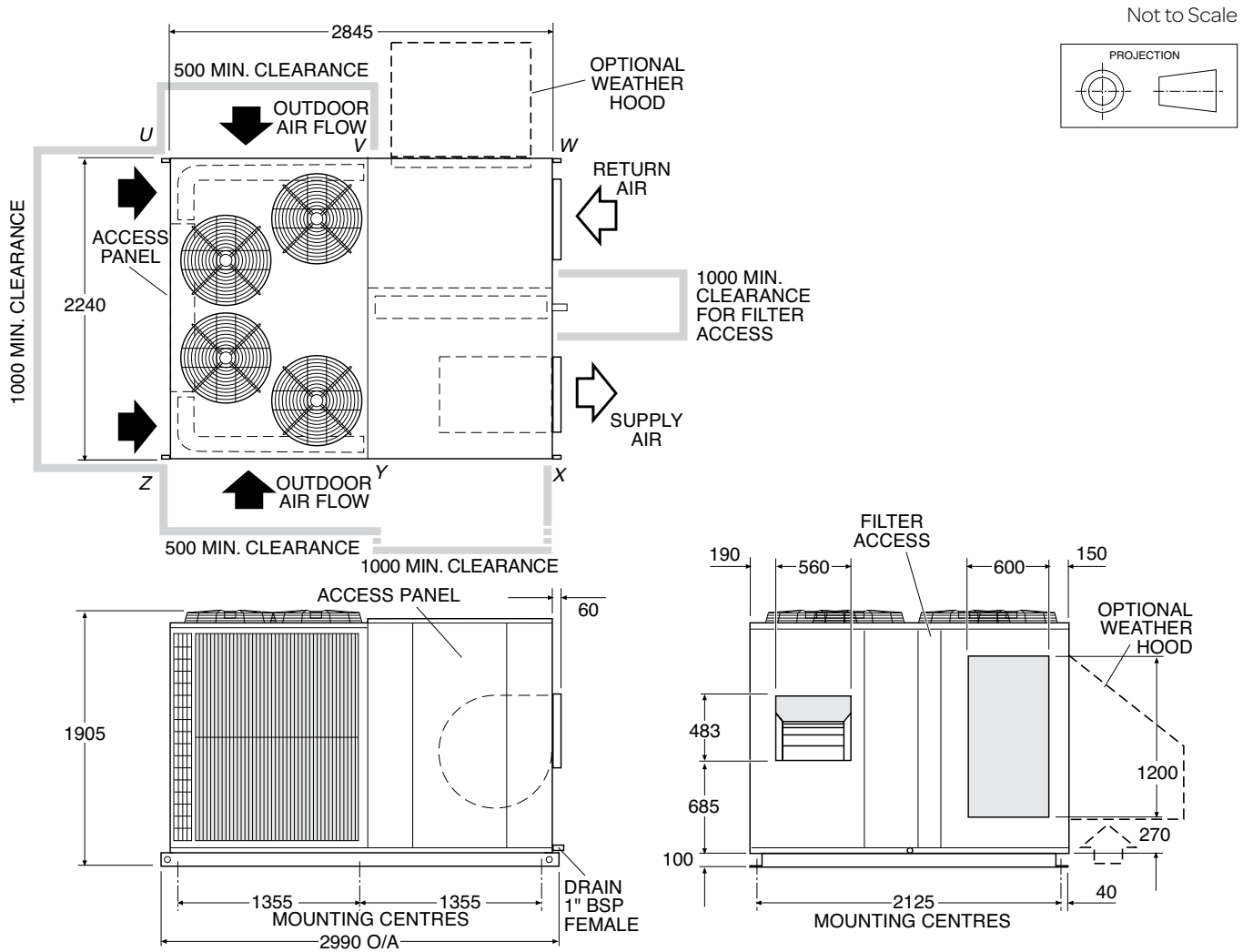
Note: The manufacturer reserves the right to make changes in specifications at any time without notice or obligation. Certified data is available on request.

Air cooled packaged units

Dimensions (mm)



FIG. 2 OPA 800KTB01 - HORIZONTAL SUPPLY & RETURN AIR



POINT LOAD (kg)

U	V	W	X	Y	Z
243	189	135	249	222	195

Note: A 2 m clearance is required above the condenser air fans.

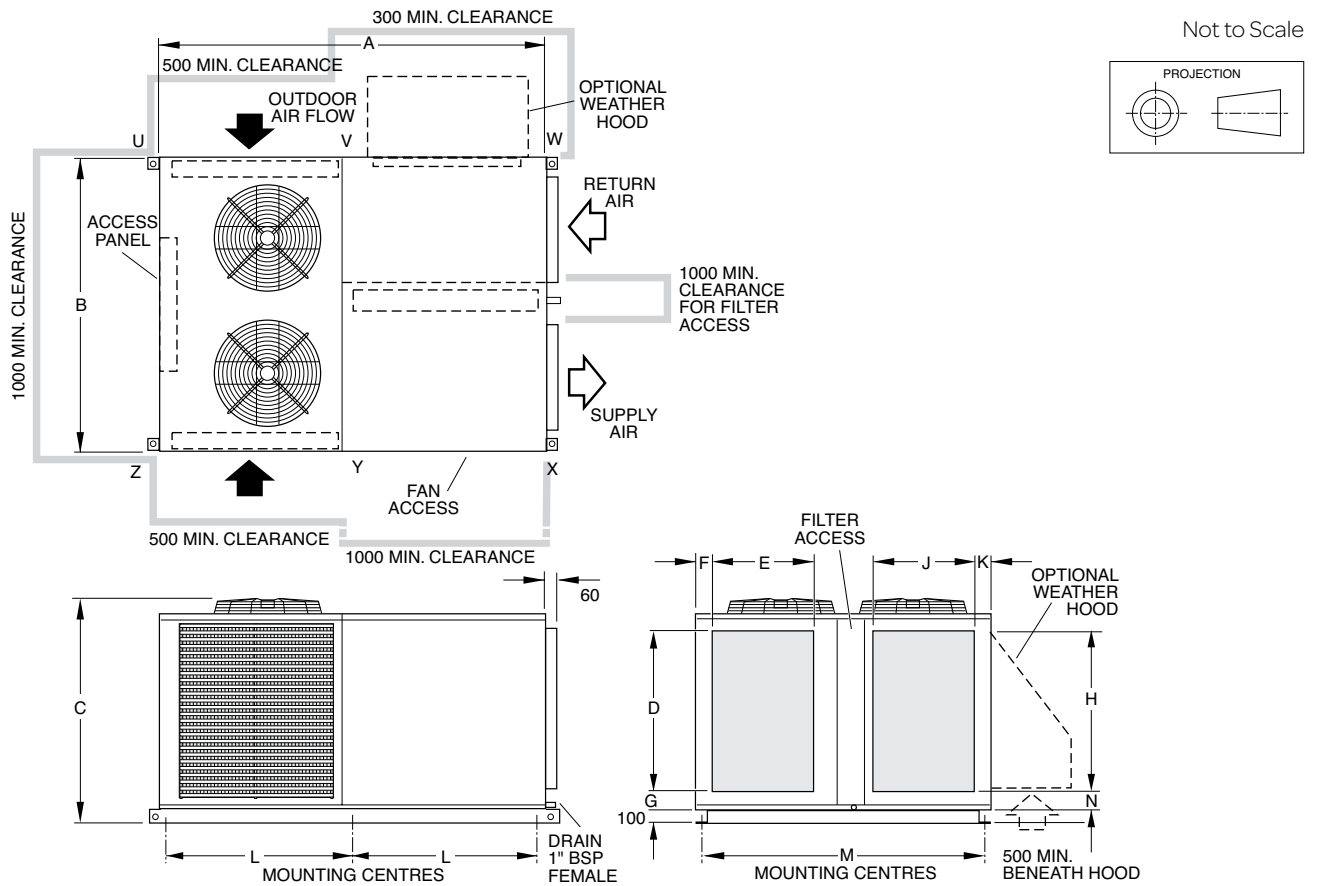
Note: The manufacturer reserves the right to make changes in specifications at any time without notice or obligation. Certified data is available on request.

Air cooled packaged units

Dimensions (mm)



FIG. 3 OPA *RKTBG-P : HORIZONTAL SUPPLY & RETURN AIR (PLUG FAN OPTION)



MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N
OPA 465	2225	1950	1635	957	502	55	210	957	502	130	1080	1879	210
OPA 550	2225	1950	1750	958	502	70	210	958	502	130	1080	1879	210
OPA 705	2790	2150	1860	1200	600	115	265	1200	600	130	1364	2079	265
OPA 855	2790	2150	1860	1200	600	115	265	1200	600	130	1364	2079	265
OPA 960	2790	2150	1860	1200	600	115	265	1200	600	130	1364	2079	265

POINT LOAD (kg)

Model	U	V	W	X	Y	Z
OPA 465	126	115	105	131	142	154
OPA 550	159	134	109	131	146	162
OPA 705	165	164	176	199	198	212
OPA 855	165	164	176	199	198	212
OPA 960	169	168	180	206	204	220

Note: The OPA 705, 855, 960 models have four outdoor air fans.

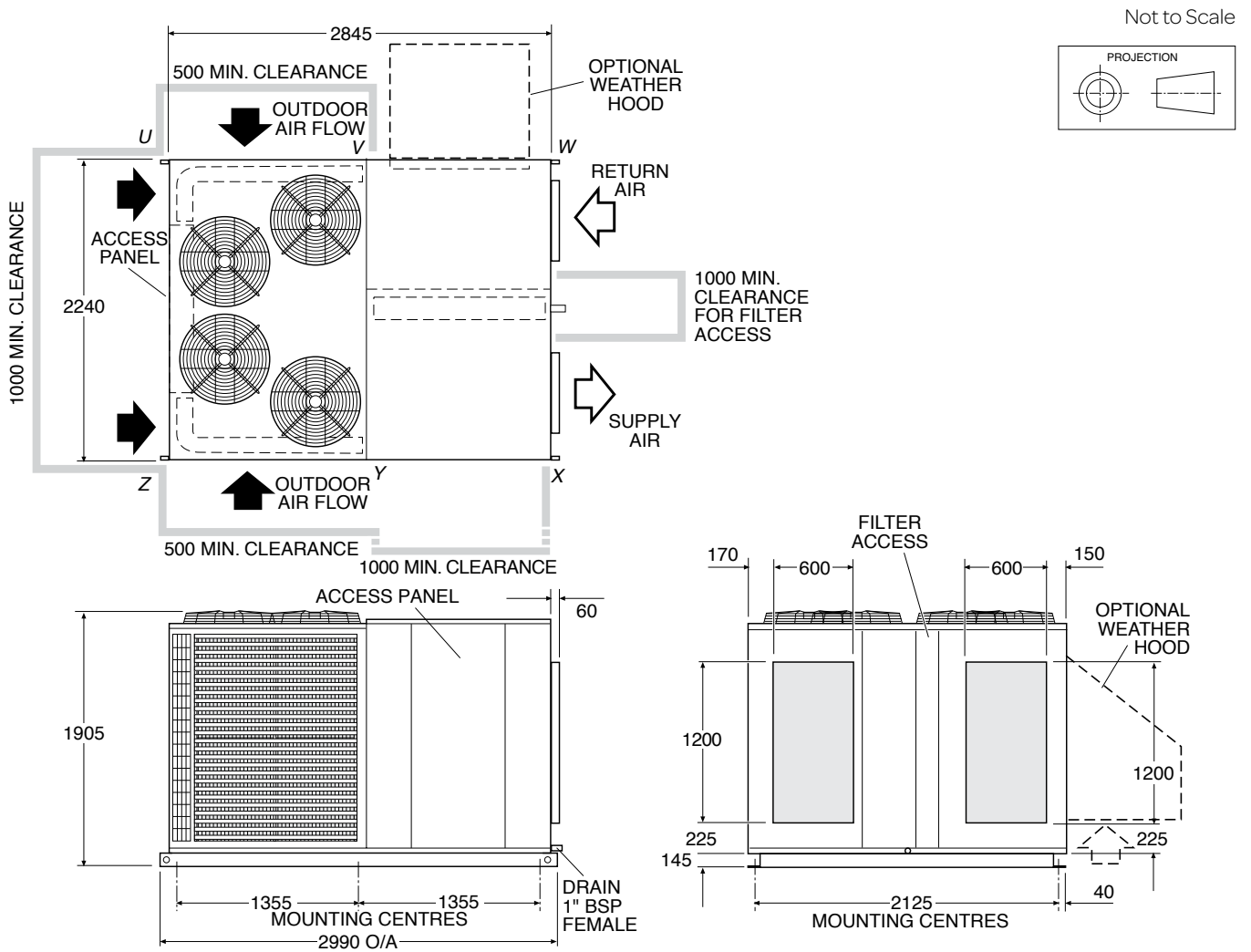
Note: The manufacturer reserves the right to make changes in specifications at any time without notice or obligation. Certified data is available on request.

Air cooled packaged units

Dimensions (mm)



FIG. 4 OPA 800RKTBG-P : HORIZONTAL SUPPLY & RETURN AIR (PLUG FAN OPTION)



POINT LOAD (kg)

U	V	W	X	Y	Z
234	180	126	240	203	186

Note: A 2 m clearance is required above the exhaust air fans.

Note: The manufacturer reserves the right to make changes in specifications at any time without notice or obligation. Certified data is available on request.

Air cooled packaged units

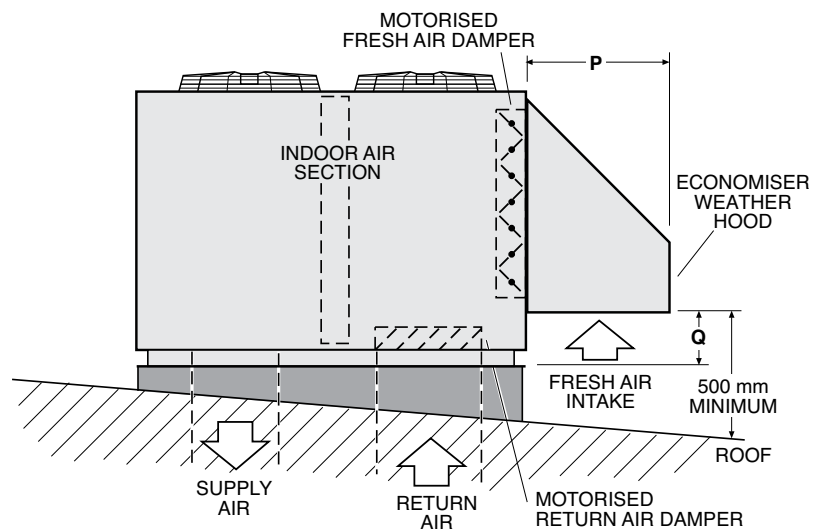
Dimensions (mm)



OPTIONS

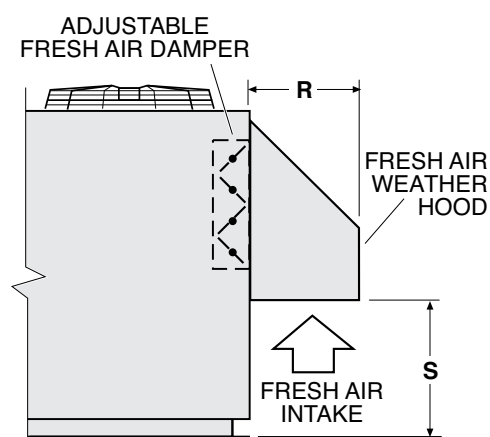
Economiser

MODEL	P	Q
OPA 465	735	335
OPA 550	735	335
OPA 705	975	370
OPA 800	975	370
OPA 855	875	310
OPA 960	875	310



Fresh Air Damper

MODEL	R	S
OPA 465	435	785
OPA 550	435	785
OPA 705	260	835
OPA 800	260	835
OPA 855	430	810
OPA 960	430	810



Note: The manufacturer reserves the right to make changes in specifications at any time without notice or obligation. Certified data is available on request.

Air cooled packaged units

Specifications



Model	OPA 465	OPA 550	OPA 705	OPA 800 * ⁵	OPA 855	OPA 960
System						
Nominal Cooling Capacity * ¹ kW	46.7	56.1	69.7	78.7	85.1	96.0
Net Cooling Capacity (MEPS) kW	44.6	53.9	67.9	74.2	79.4	87.9
Heating Capacity * ² kW	43.5	49.5	67.5	70.7	78.0	90.0
EER (cooling) ECO Plug fan version	3.16	3.21	3.30	-	3.10	2.99
EER (cooling) Standard Beltdrive version	2.96	3.05	3.20	2.99	2.90	2.80
Air Flow * ³ l/s	2500	2800	3700	4250	4200	5200
Power Source * ⁴	3 phase 342-436 V a.c. 50 Hz					
Recom'd External Protection A/ph.	50	80	100	120	100	120
ECO Plug / EC Motor S/A fan version						
Indoor Fan Full Load Amps A/ph.	5.7	5.7	4.0 x 2	5.7 x 2	4.18 x 2	5.7 x 2
Running Amps (Total System) A/ph.	26.5/31.1/26.4	29.5/37.7/28.5	40 / 40 / 40	35.2/45.2/35.2	43 / 50 / 43	56.6/65.6/56.6
Std Belt Drive Supply Air fan version						
Indoor Fan Full Load Amps A/ph.	6.5/6.5/6.5	6.5/6.5/6.5	11/11/11	11/11/11	10.3/10.3/10.3	13.8/13.8/13.8
Running Amps (Total System) A/ph.	27.3/31.9/27.2	30.3/38.5/29.3	42 / 42 / 42	40 / 50 / 40	43 / 50 / 43	59 / 68 / 59
Finish						
Exterior	grey polyester powder coat					
Weight (kg) - Belt Drive Supply Air Fan						
Net Weight	800	851	1167	1234	1210	1167
Shipping Weight (approx.)	905	960	1259	1379	1264	1259
Weight (kg) - Plug Fan / EC Motor Supply Air Fan						
Net Weight	774	840	1139	1170	1170	1148
Shipping Weight (approx.)	869	949	1241	1315	1215	1240

Notes:

- *¹ Nominal Cooling Capacity at AS/NZS 3823 conditions:
 - Indoor Entering Air Temperature 27°C D.B., 19°C W.B.;
 - Outdoor Entering Air Temperature 35°C D.B.
 Net Cooling Capacity at AS/NZS 3823 includes an allowance for indoor fan motor heat loss.
- *² Heating Capacity at AS/NZS 3823 conditions:
 - Indoor Entering Air Temperature 21°C D.B.;
 - Outdoor Entering Air Temperature 7°C D.B., 6°C W.B.
- *³ Supply air flow at Nominal Cooling Capacity conditions stated above.
- *⁴ Power source includes voltage limits.
- *⁵ Available in New Zealand only.

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