

**Underceiling/Console
Split System Air Conditioners**

Technical Data
GME Series



Featuring
HAN-L6 Controller &
Long Life Epoxy Coated Outdoor Coil

Nominal Cooling Capacity
4 kW – 17 kW

GME SERIES – UNDERCEILING OR CONSOLE SPLIT SYSTEM AIR CONDITIONERS

GENERAL

GME – Indoor Unit, usable for reverse cycle or cooling only.

OSA *C – Outdoor unit, cooling only version

OSA *R – Outdoor unit, reverse cycle version

Application

Typically installed in office areas, shops, restaurants, night clubs and other commercial and public spaces where unobtrusive air conditioning is required.

Underceiling units are ideal for rooms with limited or no ceiling space. Sloping ceilings are not a problem as the units can still be suspended level.

GME/OSA systems are available for reverse cycle (heat pump) or cooling only applications.

The system includes a temperature sensing head pressure control which enables the system to compensate for outdoor ambient temperatures below 20°C on cooling cycle, and above 15°C on heating cycle.

Design

The slimline low profile styling allows the Indoor Unit to be suspended unobtrusively under the ceiling, where it does not use valuable office wall or floor space. Alternatively, if it is more convenient the unit can be mounted vertically as a console, e.g. under a window.



The Outdoor Unit is designed to be freestanding or wall mounted, with optional kit, to fit the available space.



User Friendly

GME units are supplied with a HAN-L6 Controller. This thermostat has been designed to maintain a high level of comfort for room occupants. Emphasis has been placed on providing controls that are easy to use – despite the sophisticated microprocessor system that runs it. Use of the Auto and Timer function settings allows you to 'set it and forget it'.

Quiet

The carefully designed fans ensure the GME units' emit minimal noise, while maintaining the efficiency of the unit.

The Outdoor Unit is also very quiet with a compressor/motor within a hermetically sealed casing which in turn is mounted in an acoustically insulated compartment.

Circulates

The air discharge louvre is motorised to distribute conditioned air high and low into the room. If preferred, however, the motor can be switched off and the louvre can be set at a fixed angle. Left and right air distribution is manually set to suit.

Accessible

The filter is easily accessible for periodic cleaning via the indoor unit's hinge down/removable return air filter panel.

Durable Outdoor Unit

The Outdoor Unit is built to withstand the rigours of the weather, year in and year out. The cabinet is made from the high quality galvanised steel, finished with tough oven-cured polyester powder coating and fixed with stainless steel fasteners. The outdoor coil fins are epoxy coated for extra protection in corrosive environments, e.g. salt laden sea air.

Self Diagnostics.

The Outdoor Unit's Controller (OUC) has a display of LEDs to indicate faults and running conditions. A general fault indicator is included for interface to external systems.



OPTIONAL ACCESSORIES

Outdoor Unit:

1. LP switch.
2. Fault indicating auxiliary relay board.
3. Wall mounting brackets.

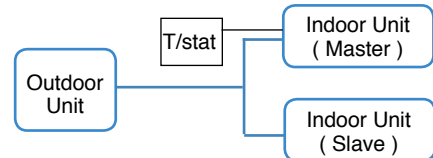
Technical Backup

Manufacturer's representation assures quality technical backup, quick and efficient parts and service.

Two Zones

Two half capacity indoor units can be coupled to one single compressor outdoor unit serving a large area from one room thermostat. This tandem arrangement permits air distribution closer to where it's needed most.

A slave version of each indoor unit is available for this arrangement. Refer to page 6 for available combinations.



The manufacturer operates a quality management system that conforms to AS/NZS ISO 9001:2000.

HAN-L6 CONTROLLER

Features

- Cool / Dry / Fan modes.
- Heat / Auto modes
- Auto / High / Medium / Low fan speed selection.
- Temperature setting range from 18°C – 28°C.
- LED to indicate status of the unit [Power On/Off].
- Room temperature display.
- Real time clock.
- 7 day timer – six start and/or stops per day
- On demand countdown run timer, up to 12 hours.
- External Time Clock compatibility
- Auto-Restart or No Restart after power failure.
- Continuous or Intermittent selection of fan run-on in dead zone.
- Indoor coil protection.
- Backlit screen for ease of reading.
- Soft touch tab keys
- Battery backup (Lithium).
- Hot start – for cold draft prevention.
- Sleep function.
- Dual Control option.
- Filter due for clean indicator.
- Low voltage control cable.
- Colour: white and grey.
- Optional: Remote return air sensor, remote wall sensor, extended interface lead, extra Wall Control plaques (up to 4 in total).



CONFIGURATIONS

GME Series

Cooling Only or Reverse Cycle

The GME Series air conditioners are available in a variety of split system configurations
 - Cooling Only, Reverse Cycle, either Single or Three Phase (refer page 6)

* Single Phase

Indoor Unit:	GME 152	GME 222	GME 302	GME 402	GME 502	GME 702
Outdoor Unit:	OSA 45R *	OSA 73 *	OSA 100 * or OSA 101	OSA 126 * or OSA 127	OSA 150	OSA 180 or OSA 181
Nominal Cooling:	4.3 kW	6.8 kW	9.3 kW	11.9 kW	14.4 kW	16.6 kW
Nominal Heating:	4.3 kW	7.3 kW	9.8 kW	12.2 kW	14.5 kW	17.0 kW

COOLING CAPACITY (kW)

MODELS Outdoor / Indoor Unit	INDOOR FAN		INDOOR COIL E.A.T.		OUTDOOR COIL ENTERING AIR TEMPERATURE °C D.B.											
	SPEED	AIR l/s	W.B. °C	D.B. °C	23		27		31		35		39		43	
					Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.		
GME 152 / OSA 45	LOW	155	17	23	4.2	2.7	4.1	2.6	3.9	2.5	3.8	2.5	3.6	2.4	3.4	2.3
			19	27	4.6	3.0	4.4	2.9	4.2	2.9	4.1	2.8	3.9	2.7	3.7	2.6
			21	31	4.9	3.3	4.7	3.3	4.6	3.2	4.4	3.1	4.2	3.0	4.0	3.0
	MED	165	17	23	4.3	2.7	4.1	2.7	4.0	2.6	3.8	2.5	3.6	2.5	3.5	2.4
			19	27	4.6	3.1	4.5	3.0	4.3	3.0	4.1	2.9	3.9	2.8	3.7	2.7
			21	31	5.0	3.4	4.8	3.4	4.6	3.3	4.4	3.2	4.2	3.1	4.0	3.1
	HIGH	175	17	23	4.3	2.8	4.2	2.7	4.0	2.7	3.9	2.6	3.7	2.5	3.5	2.4
			19	27	4.7	3.2	4.5	3.1	4.3	3.0	4.3	3.0	4.0	2.9	3.8	2.8
			21	31	5.0	3.5	4.9	3.5	4.7	3.4	4.5	3.3	4.3	3.2	4.0	3.2
GME 222 / OSA 73	LOW	220	17	23	6.5	4.0	6.4	3.9	6.2	3.9	6.1	3.8	5.9	3.7	5.8	3.6
			19	27	7.0	4.5	6.9	4.4	6.7	4.3	6.5	4.2	6.4	4.2	6.2	4.1
			21	31	7.5	4.9	7.4	4.8	7.2	4.8	7.0	4.7	6.8	4.6	6.7	4.5
	MED	230	17	23	6.6	4.1	6.5	4.0	6.3	3.9	6.1	3.9	6.0	3.8	5.8	3.7
			19	27	7.1	4.5	6.9	4.5	6.8	4.4	6.6	4.3	6.4	4.2	6.3	4.2
			21	31	7.6	5.0	7.5	4.9	7.3	4.9	7.1	4.8	6.9	4.7	6.7	4.6
	HIGH	240	17	23	6.7	4.1	6.5	4.1	6.4	4.0	6.2	3.9	6.0	3.8	5.9	3.8
			19	27	7.2	4.6	7.0	4.5	6.8	4.5	6.8	4.4	6.5	4.3	6.3	4.2
			21	31	7.7	5.1	7.5	5.0	7.4	5.0	7.2	4.9	7.0	4.8	6.8	4.7
GME 302 / OSA 100 or GME 302 / OSA 101	LOW	265	17	23	8.9	5.5	8.7	5.4	8.5	5.3	8.2	5.1	8.0	5.0	7.7	4.9
			19	27	9.5	6.0	9.3	5.9	9.0	5.8	8.8	5.7	8.5	5.6	8.2	5.5
			21	31	10.1	6.6	9.8	6.5	9.6	6.3	9.3	6.2	9.0	6.1	8.8	6.0
	MED	295	17	23	9.1	5.7	8.9	5.6	8.6	5.4	8.4	5.3	8.1	5.2	7.9	5.1
			19	27	9.7	6.3	9.4	6.2	9.2	6.1	8.9	5.9	8.7	5.8	8.4	5.8
			21	31	10.3	6.9	10.0	6.8	9.7	6.6	9.5	6.5	9.2	6.4	8.9	6.3
	HIGH	375	17	23	9.5	6.2	9.2	6.0	9.0	5.9	8.7	5.8	8.5	5.7	8.2	5.6
			19	27	10.1	6.9	9.8	6.8	9.5	6.7	9.3	6.6	9.0	6.5	8.7	6.3
			21	31	10.7	7.6	10.4	7.5	10.1	7.4	9.8	7.3	9.6	7.2	9.3	7.1
GME 402 / OSA 126 or GME 402 / OSA 127	LOW	370	17	23	11.5	7.1	11.1	6.9	10.8	6.8	10.5	6.6	10.1	6.4	9.8	6.3
			19	27	12.1	7.8	11.8	7.7	11.5	7.5	11.1	7.3	10.8	7.2	10.4	7.0
			21	31	12.9	8.5	12.5	8.4	12.2	8.2	11.8	8.1	11.4	7.9	11.1	7.8
	MED	470	17	23	12.0	7.7	11.7	7.5	11.3	7.4	11.0	7.2	10.6	7.1	10.2	6.9
			19	27	12.7	8.6	12.4	8.4	12.0	8.3	11.6	8.1	11.3	8.0	10.9	7.8
			21	31	13.5	9.5	13.1	9.4	12.7	9.2	12.4	9.1	12.0	8.9	11.6	8.8
	HIGH	585	17	23	12.4	8.3	12.0	8.2	11.6	8.0	11.3	7.8	10.9	7.7	10.5	7.5
			19	27	13.1	9.4	12.7	9.3	12.3	9.1	11.9	9.0	11.6	8.8	11.2	8.7
			21	31	13.9	10.5	13.5	10.4	13.1	10.2	12.7	10.1	12.3	9.9	11.9	9.8
GME 502 / OSA 150	LOW	450	17	23	14.2	8.8	13.8	8.6	13.4	8.4	13.0	8.2	12.6	8.0	12.1	7.8
			19	27	15.0	9.7	14.6	9.5	14.2	9.3	13.7	9.1	13.3	8.9	12.9	8.8
			21	31	15.8	10.6	15.4	10.4	15.0	10.2	14.5	10.0	14.1	9.8	13.7	9.7
	MED	520	17	23	14.5	9.2	14.1	9.0	13.7	8.8	13.2	8.6	12.8	8.4	12.4	8.3
			19	27	15.3	10.2	14.9	10.0	14.5	9.9	14.0	9.7	13.6	9.5	13.1	9.3
			21	31	16.2	11.2	15.7	11.1	15.3	10.9	14.8	10.7	14.4	10.5	13.9	10.4
	HIGH	625	17	23	14.9	9.8	14.4	9.6	14.0	9.4	13.6	9.2	13.1	9.0	12.7	8.9
			19	27	15.7	11.0	15.3	10.8	14.8	10.7	14.4	10.5	13.9	10.3	13.5	10.1
			21	31	16.6	12.2	16.1	12.0	15.7	11.9	15.2	11.7	14.8	11.5	14.3	11.3
GME 702 / OSA 180 or GME 702 / OSA 181	LOW	665	17	23	16.6	10.8	16.2	10.5	15.7	10.3	15.3	10.1	14.8	9.9	14.3	9.7
			19	27	17.6	12.0	17.1	11.8	16.7	11.6	16.2	11.4	15.7	11.2	15.2	11.0
			21	31	18.6	13.3	18.1	13.1	17.6	12.9	17.1	12.7	16.6	12.5	16.1	12.3
	MED	725	17	23	16.9	11.1	16.4	10.9	15.9	10.7	15.4	10.5	15.0	10.3	14.5	10.0
			19	27	17.8	12.5	17.3	12.3	16.9	12.1	16.4	11.9	15.9	11.7	15.4	11.5
			21	31	18.9	13.8	18.3	13.6	17.8	13.4	17.3	13.2	16.8	13.1	16.3	12.9
	HIGH	815	17	23	17.1	11.5	16.7	11.3	16.2	11.1	15.7	10.9	15.2	10.7	14.7	10.5
			19	27	18.1	13.1	17.6	12.9	17.1	12.7	16.6	12.5	16.1	12.3	15.6	12.1
			21	31	19.2	14.6	18.7	14.4	18.1	14.2	17.6	14.0	17.1	13.8	16.5	13.6

Total = Total Capacity (kW)
 Sens. = Sensible Capacity (kW)

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

Note: Allow for pipe length capacity loss (refer overleaf).

HEATING CAPACITY (kW) – Reverse Cycle Systems

MODELS Outdoor / Indoor Unit / Unit	INDOOR ENTERING AIR TEMP. °C D.B.	OUTDOOR COIL ENTERING AIR TEMPERATURE (E.A.T.) °C 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
GME 152 / OSA 45R	15	2.9	2.6	3.2	2.9	3.4	3.1	3.6	3.2	3.8	3.2	4.1	3.7	4.4	4.3	4.6	4.6
	20	2.9	2.6	3.1	2.8	3.3	3.0	3.6	3.1	3.8	3.2	4.0	3.6	4.3	4.3	4.5	4.5
	25	2.8	2.5	3.0	2.7	3.2	2.9	3.4	3.0	3.6	3.1	3.9	3.5	4.1	4.1	4.4	4.4
GME 222 / OSA 73R	15	5.0	4.5	5.4	4.9	5.8	5.2	6.0	5.3	6.4	5.4	6.9	6.2	7.3	7.2	7.7	7.7
	20	4.9	4.4	5.3	4.7	5.7	5.1	6.0	5.3	6.4	5.4	6.9	6.2	7.3	7.2	7.7	7.7
	25	4.7	4.2	5.1	4.6	5.5	4.9	5.8	5.1	6.2	5.2	6.6	6.0	7.0	7.0	7.4	7.4
GME 302 / OSA 100R or GME 302 / OSA 101R	15	6.7	6.0	7.3	6.5	7.8	7.0	8.3	7.3	8.8	7.4	9.4	8.5	10.0	9.9	10.5	10.5
	20	6.6	5.9	7.1	6.4	7.6	6.8	8.1	7.1	8.6	7.3	9.2	8.3	9.8	9.7	10.3	10.3
	25	6.3	5.7	6.8	6.2	7.3	6.6	7.8	6.9	8.3	7.0	8.9	8.0	9.4	9.3	9.9	9.9
GME 402 / OSA 126R or GME 402 / OSA 127R	15	8.3	7.5	9.0	8.1	9.6	8.7	10.3	9.0	10.9	9.2	11.7	10.5	12.4	12.3	13.1	13.1
	20	8.2	7.4	8.9	8.0	9.5	8.5	10.1	8.9	10.7	9.0	11.5	10.3	12.2	12.1	12.8	12.8
	25	7.9	7.1	8.5	7.7	9.1	8.2	9.7	8.5	10.3	8.7	11.0	9.9	11.7	11.6	12.3	12.3
GME 502 / OSA 150R	15	9.9	8.9	10.7	9.7	11.5	10.3	12.2	10.7	12.9	10.9	13.9	12.5	14.8	14.6	15.5	15.5
	20	9.7	8.7	10.5	9.5	11.2	10.1	12.0	10.5	12.7	10.7	13.6	12.3	14.5	14.4	15.2	15.2
	25	9.4	8.4	10.1	9.1	10.8	9.7	11.5	10.1	12.2	10.3	13.1	11.8	14.0	13.8	14.7	14.7
GME 702 / OSA 180R or GME 702 / OSA 181R	15	11.6	10.5	12.6	11.3	13.4	12.1	14.3	12.6	15.2	12.8	16.3	14.7	17.3	17.2	18.2	18.2
	20	11.4	10.3	12.3	11.1	13.2	11.9	14.0	12.3	14.9	12.6	16.0	14.4	17.0	16.8	17.9	17.9
	25	11.4	10.3	12.3	11.1	13.2	11.9	14.0	12.3	14.9	12.6	16.0	14.4	17.0	16.8	17.9	17.9

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

N = Net Heating Capacity kW allowing for average defrost.

Note: Allow for pipe length capacity loss.

○ = Nominal Capacity (kW)

PIPE LENGTH CAPACITY LOSS

ON COOLING CYCLE DUE TO PRESSURE DROP

Note: Loss percentage is approximate only. No allowance made for vertical piping or bends.

MODELS Indoor Outdoor Unit Unit	Interconnecting Pipe Size OD (mm)		Equivalent Pipe Length (m)				
	Liquid	Suction	5	10	15	20	30
GME 152 / OSA 45	6	13	4 %	6 %	9 %	12 %	18 %
GME 222 / OSA 73	10	16	1.8 %	4 %	6.5 %	9 %	13 %
GME 302 / OSA 101	10	19	2.5 %	5 %	8 %	11 %	15 %
GME 402 / OSA 127	13	19	1.6 %	3.2 %	4.7 %	7 %	10 %
GME 502 / OSA 150	13	22	2 %	4 %	6 %	8 %	12 %
GME 702 / OSA 180	13	22	2 %	3.5 %	5.5 %	7 %	11 %

Additional Pipe Length to allow per Bend			
Suction Pipe Size OD	16 mm	19 mm	22 mm
Long 90° Radius (2 x pipe dia.)	0.30 m	0.43 m	0.46 m

PIPE RUN RESTRICTIONS

Maximum Pipe Length

OSA 45 Up to 25 m total

OSA 73–181 Up to 30 m total

Refer to manufacturer's representative for extended pipe lengths details.

Height Separation Limits

Reverse Cycle Systems:

Outdoor Unit above Indoor Unit : 12 m *

Outdoor Unit below Indoor Unit : 12 m *

Cooling Only Systems:

Outdoor Unit above Indoor Unit : 18 m *

Outdoor Unit below Indoor Unit : 12 m *

* Note: Maximum of 10 m for systems that include an OSA 45R.

Sound Pressure Levels (SPL)

As measured in an anechoic chamber, 1 m below and to the side of the unit. No allowance for sound reflection within a room. Add 13 dB to convert to Sound Power Levels (SWL).

MODEL	FAN SPEED	AIR FLOW l/s	SPL dB(A)	OCTAVE BAND FREQUENCY Hz					
				125	250	500	1 k	2 k	4 k
				SOUND PRESSURE LEVELS (SPL) dB					

INDOOR UNITS

GME 152	LOW	155	41	39	39	41	37	32	24
	MED	165	43	40	40	42	39	34	26
	HIGH	175	44	41	42	43	40	35	28
GME 222	LOW	220	44	40	42	44	40	33	27
	MED	230	45	41	43	43	41	36	29
	HIGH	240	46	42	44	46	42	37	30
GME 302	LOW	265	41	41	45	41	35	28	20
	MED	295	43	42	46	44	37	31	24
	HIGH	375	48	48	48	47	44	39	32
GME 402	LOW	370	41	43	40	41	37	30	21
	MED	470	45	43	43	44	40	35	26
	HIGH	585	50	48	48	48	46	41	33
GME 502	LOW	450	43	44	43	42	39	32	24
	MED	520	46	47	47	45	43	36	29
	HIGH	625	51	51	51	49	48	42	35
GME 702	LOW	665	51	51	51	50	47	41	35
	MED	725	53	53	53	51	50	44	37
	HIGH	815	55	55	55	53	52	46	40

Sound Pressure Levels (SPL) Within A Room

Indoor Units: Add the room reflection effect below to the anechoic Sound Pressure Levels above to obtain Sound Pressure Levels within a room.

ROOM TYPE	OCTAVE BAND FREQ. Hz					
	125	250	500	1k	2k	4k
	ROOM REFLECTION EFFECT					
SOFT	9	5	2	2	2	2
MEDIUM	10	6	5	4	4	4
HARD	13	12	10	9	9	8

Sound Power Levels (SWL)

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.

MODEL	FAN SPEED	SWL dB(A)	OCTAVE BAND FREQUENCY Hz					
			125	250	500	1 k	2 k	4 k
			SOUND POWER LEVELS (SWL) dB					

OUTDOOR UNITS

OSA 45	LOW	58	67	60	54	52	45	41
	MED	60	64	63	56	55	49	44
OSA 73	LOW	61	66	63	58	56	51	45
	MED	63	70	65	60	58	52	47
OSA 100	LOW	65	71	69	63	58	51	46
	MED	67	72	69	66	60	54	47
OSA 101	LOW	65	71	69	63	58	51	46
	MED	67	72	69	66	60	54	47
OSA 126	MED	67	71	69	65	62	56	48
	HIGH	69	70	70	66	65	58	50
OSA 127	MED	67	71	69	65	62	56	48
	HIGH	69	70	70	66	65	58	50
OSA 150	MED	67	68	68	64	63	56	49
	HIGH	68	69	68	66	65	58	51
OSA 180	MED	65	71	67	62	60	56	49
	HIGH	69	74	72	66	64	58	53
OSA 181	MED	68	72	71	66	63	57	51
	HIGH	70	75	72	68	65	59	54

Sound Pressure Levels (SPL)

Outdoor Units: Deduct 16 dB from Sound Power Level above to obtain Sound Pressure Level at 3 metres.

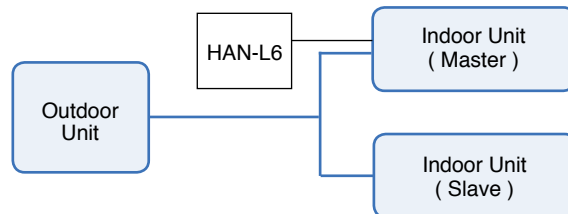
TANDEM COMBINATIONS

One GME unit with HAN-L6 Controller (Master) and one GME unit without t/stat (Slave) can be connected in tandem to one single circuit Outdoor Unit.

Tandem combinations available are:

- Two GME 152 with one OSA 73
- Two GME 222 with one OSA 126/127
- Two GME 302 with one OSA 180/181
- Two GME 402 with one OSA 220/221

One GME 222 and GME 152 (Slave) with one OSA100/101



When connecting two indoor units in tandem to a single circuit outdoor unit the following applies:

1. Maximum line length specified for the outdoor unit must include both tandem legs.
2. Tandem legs must be as close as possible to equal, after leaving the common leg.
3. Each 'T' joint connection must be the same size as the common leg's pipe size, downsizing from there (if necessary) to the recommended pipe size for each indoor unit.

DIMENSIONS (mm)

Not to Scale

Fig. 1 GME 152 – 702 Underceiling/Console

Indoor Units

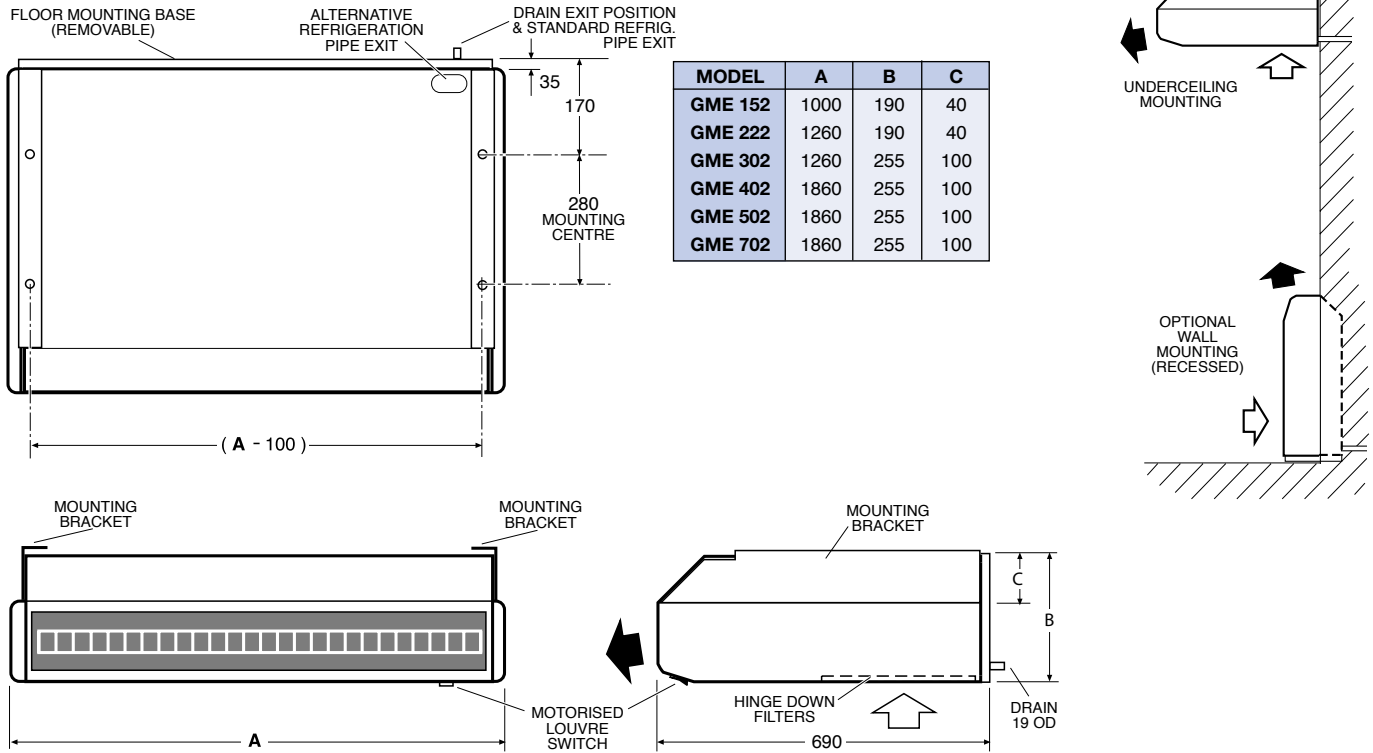
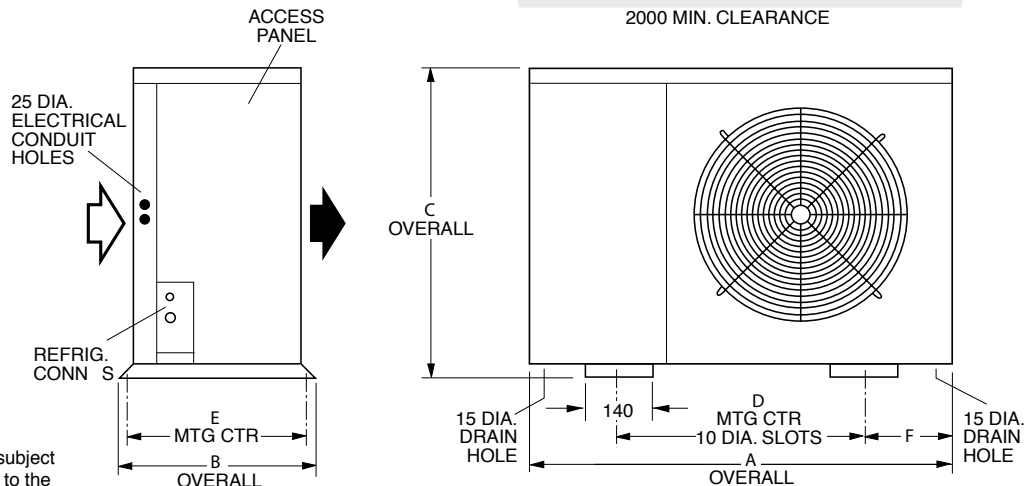
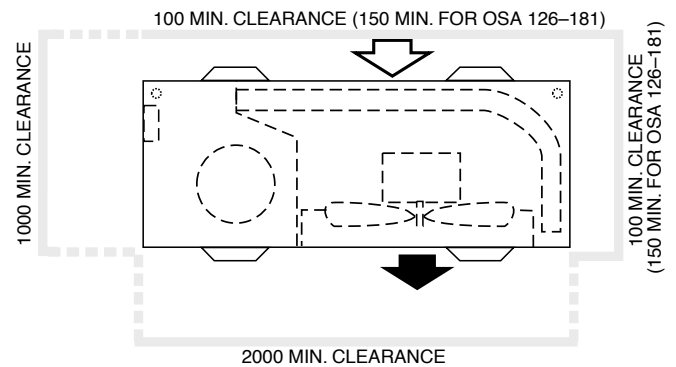


Fig. 2 OSA 45 – 181

Outdoor Units

MODEL	A	B	C	D	E	F
OSA 45	750	360	660	590	330	80
OSA 73	885	380	655	515	350	185
OSA 100	935	410	695	585	380	175
OSA 101	935	410	695	585	380	175
OSA 126	970	440	800	610	420	180
OSA 127	970	440	800	610	420	180
OSA 150	1135	480	800	725	430	200
OSA 180	1140	590	1030	723	565	210
OSA 181	1140	595	1025	723	570	210

Note: OSA 181 has fans on top; 2 m clearance required.



NOTE
Materials and specifications subject to change without notice due to the manufacturer's ongoing research and development programme.

SPECIFICATIONS SUMMARY

SPLIT SYSTEMS	Single Phase				Three Phase					
	Indoor Unit :	GME 152	GME 222	GME 302	GME 402	GME 302	GME 402	GME 502	GME 702	GME 702
Outdoor Unit :	OSA 45	OSA 73	OSA 100	OSA 126	OSA 101	OSA 127	OSA 150	OSA 180	OSA 181*7	
Cooling Capacity *1	kW	4.3	6.8	9.3	11.9	9.3	11.9	14.4	16.6	16.6
Heating Capacity *2	kW	4.3	7.3	9.8	12.2	9.8	12.2	14.5	17.0	17.0
E.E.R. (Cooling)		3.00	2.83	2.64	2.88	2.64	2.88	2.88	2.91	2.91
Power Source *3	volts	230	230	230	230	400	400	400	400	400
Recom'd Max. Line Length	m	25	30	30	30	30	30	30	30	30
Max. Height Separation Between Indoor & Outdoor Units: (Indoor Unit above Outdoor / Outdoor Unit above Indoor*6)										
	m	10 / 10	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12
Running Amps (Total) / Ext'l Fuse	A	6.6 / 20	12 / 25	18 / 32	18.5 / 32	6.5,5 / 25	8,6,6 / 25	11,8,8 / 25	12,8,9 / 25	12,8,9 / 25

INDOOR UNITS

Air Flow (l/s)	Low	155	220	265	370	265	370	450	665	665
	Med	165	230	295	470	295	470	520	725	725
	High	175	240	375	585	375	585	625	815	815
Sound Pressure dB(A) (SPL) *4	Low	41	44	41	41	41	41	43	51	51
	Med	43	45	43	45	43	45	46	53	53
	High	44	46	48	50	48	50	51	55	55
Holding Charge		dry Nitrogen								
Heat Exchanger Type		aluminium corrugated plate fins to expanded inner grooved copper tube								
Indoor Fan Type		forward curved centrifugal								
Weight	kg	27	38	48	68	48	68	74	74	74

OUTDOOR UNITS

Sound Pressure (SPL) *5 dB(A)		44	45	49	51	49	51	51	49	52
Refrigerant		H C F C - 2 2 (R 2 2)								
Heat Exchanger Type		epoxy coated aluminium corrugated plate fins to expanded inner grooved copper tube								
Outdoor Fan Type		propeller								
Finish		tan polyester powder coat								
Approx. Weight	kg	46	72	83	92	83	92	116	139	139

Notes:

Capacities are for close coupled systems. Allowance must be made for pipe length, pipe size and bends.

*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.

*2 Reverse Cycle versions – Nominal Heating Capacity at AS/NZS 3823 conditions: Indoor Entering Air Temperature 21°C D.B.;
Outdoor Entering Air Temperature 7°C D.B., 6.1°C W.B.

*3 Voltage fluctuation limits: 1 phase 200–252 V a.c. 50 Hz; 3 phase 342–436 V a.c. 50 Hz.

*4 Sound Pressure Level (SPL) for Indoor Units measured in an anechoic chamber 1 m below and to the side of the unit.

*5 Sound Pressure Level (SPL) for Outdoor Units is measured 3 m from exhaust air fans.

*6 Outdoor unit above Indoor unit limit is 18 m for OSA 73–181 Cooling Only systems.

*7 As for OSA 180, but with fans mounted on top.

NOTE

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