

Medical Air Plant

HTM 02-01 • 60 Hz

Description

Medical Air Plants are intended to provide a continuous supply of medical quality air conforming to the European Pharmacopoeia medicinal air monograph (ref. 1238), for respiratory use in healthcare facilities. The system shall be duplex such that the supply is maintained in single fault condition. Standby compressors shall be provided such that the specified volumetric flow is achieved with either one reserve compressor on standby where an automatic backup manifold of sufficient capacity is provided, or two compressors not running if the backup manifold is unable to deliver the medical air system design flow. Medical Air Plants shall be supplied fully tested and comply with the United Kingdom Department of Health (DoH) publication HTM 02-01, NHS Model Engineering Specification C11 and ISO 7396-1.

Pneumatech Medical Gas Solutions Medical Air Plants are CE marked to the Medical Device Directive 93/42/EEC under the auspices of notified body no. 0088 (Lloyd's). Under this directive, Medical Air Plants are classified as Class IIb Medical Devices.

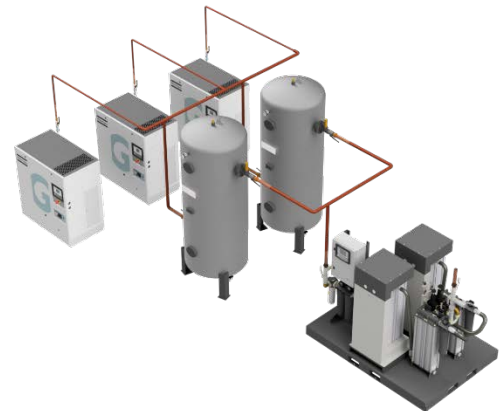
Compressors

Compressors shall be Atlas Copco GA MED or GA VSD+MED oil injected rotary screw compressors suitable for both continuous and frequent start/stop operation at a nominal outlet pressure of 730kPa (7.3 bar), 1080kPa (10.8 bar) or 1250 kPa (12.5 bar) gauge. Compressors shall be supplied with a block and fin style after cooler with a dedicated quiet running fan to maximise cooling and efficiency. A multistage oil separator capable of achieving 2ppm oil carry over shall be fitted to minimise contamination and maintenance. Minimum IE3 (IEC 60034) rated, IP55 class F electric motors shall be used and incorporate maintenance-free greased for life bearings. Motors with lower efficiency ratings are not acceptable.

If not variable speed, than compressor shall be provided with Star-Delta (Wye-Delta) motor starters and each motor shall be protected by a thermal overload relay. The incoming supply shall terminate at a door interlock isolator. An ammeter shall be fitted to each starter panel indicating the current drawn by the motor.

Purification Module

The duplexed filter and dryer module shall incorporate high efficiency oil coalescing filters, heatless regenerative desiccant dryers, impregnated activated carbon filters and bacterial filters. The performance of the filters shall be according to below specifications:



- Oil coalescing high efficiency filter: mass efficiency of 99,92%, tested according to ISO 8573-2 & ISO 12500-1;
- Activated carbon filter: max remaining total oil content of 0,003 mg/m³, tested according to ISO 8573-5 & ISO12500-2;
- Bacterial filter: particle count efficiency of 99,98% at MPPS=0.06µm, tested according to ISO 12500-3.

Contaminants in the delivered air downstream of the bacteria filters shall be maintained at levels below those shown in the table below:

Contaminant	Threshold
H ₂ O	67ppm v/v (-46°C atm. dp)
CO	5 ppm v/v
CO ₂	500 ppm v/v
SO ₂	1 ppm v/v
NO	2 ppm v/v
NO ₂	2 ppm v/v
Dry particulates	ISO 8573-1 particle purity Class 2
Oil (droplet or mist)	0.1 mg/m ³

Tested under factory and site reference conditions.

The purification module shall have the water concentration in the delivered air continuously monitored by a dedicated sensor providing an alarm indication for high dew point on the respective dryer.

The outlet air pressure shall be regulated through a duplex arrangement of non-relieving pressure regulators and protected from over-pressure by duplex pressure safety valves.



Dryer Purge Control

The dryer control system shall incorporate a Purge Saver Energy Management system that freezes the regeneration of the desiccant once adequate dew point is reached in the inactive tower. Only when the dewpoint level in the active tower deteriorates to an unacceptable level will the intelligent controller switch towers. This shall be achieved by including an additional dew point sensor and associated software in the dryer controller to effectively manage the system as well as providing on screen measurements of purge savings.

Plant Control Unit

The central control system shall provide an intelligent human machine interface incorporating on board flash memory and real-time clock for recording operational parameters in the in-built event log. The central control system shall operate at low voltage and include BMS connection for plant fault, plant emergency, reserve fault and pressure fault. Visualisation of plant inputs, outputs and status through a web browser, using a simple Ethernet connection shall be available. The central control unit shall incorporate a user friendly 3.5" high-definition colour display with clear pictograms and LED indicators, providing easy access to system operational information. The software shall be developed according to EN 62304. A mechanical back-up facility shall ensure continued operation in the event of a control system malfunction. The control system shall normally employ automatic rotation of the lead compressor to maximise life and ensure even wear.

Digital Dew Point Display

The purification module shall incorporate a dew point hygrometer with an accuracy of $\pm 3^{\circ}\text{C}$ in the range $+20$ to -60°C atmospheric dew point and 4-20 mA analogue output. Aluminium oxide or palladium wire sensors are not acceptable. An alarm condition shall trigger on the dryer control panel if the dew point exceeds a -46°C atmospheric (67 ppm v/v) set point. Voltage-free contacts shall be included to enable the dew point alarm signal (Plant Emergency) to be connected to a central medical gas alarm system and/or building management system (BMS).

Air Receiver(s)

Air receivers shall comply with BS EN 286-1;+A2 2005 and be manufactured from heavy gauge fusion welded steel with a minimum wall thickness of 5 mm and dished ends with a minimum wall thickness of 6 mm. Total air receiver volume shall be at least 50% of the plant capacity in 1 minute in terms of free air delivered at normal working pressure. Air receiver shall be connected to the dryer in parallel such that operation of the system can continue during receiver isolation for periodic internal inspection. The receiver assembly shall be fitted with a pressure safety valve set at 11 or 14bar. The receiver shall be further protected by a fusible plug and include a 100 mm nominal diameter pressure gauge complete with isolating valve.

Each air receiver shall be fitted with an electrically actuated drain valve with integral solid-state timer providing user adjustable opening time and actuation frequency. The valve shall be fitted with a manual test button and LED indication lights to show operating status. The drain shall be protected from blockage by debris with a strainer. Float type mechanically actuated drain valves are not acceptable. Drain valves to be connected locally to a single phase supply.

Optional Items

There shall be the followings options available for enhanced operation of the air plant system:-

- Phase sequence relays that prevent unintentional reverse operation of the compressors (standard for GA15-26 MED & GA7-37 VSD+ MED compressors)
- OCS water/oil separator for the air plant system
- Synthetic oil for increased compressor life
- Tropical thermostatic sensors for countries with high humidity
- Heavy duty inlet filters for compressors installed in areas of highly concentrated dust levels

Note: Interconnecting pipework between components to be made on site and provided by the installer. Controller CAN cables are provided as a 10m assembly with each compressor which can be shortened on site if required.

Combined Air Plant Sizing Guide

In HTM 02-01, the relative size of receiver capacity and compressor capacity on surgical air or combined medical/surgical air systems changes according to the design flow rate. In order to correctly calculate the receiver capacity and compressor capacity, both the medical and surgical design flow-rates (DF's) are required. It should be noted that for all combined air systems, an additional duplex regulating station (ordered separately) is needed to supply the medical air pipeline.

Surgical Air Compressors	Design Flow (l/min)	Value 'A' FAD (l)
	<500	0.33 x DF
	500 - 3500	0.66 x DF
>3500	0.5 x DF	

Table 1: Surgical Air Flow Rate Multiplier Value 'A'

Surgical Air Receivers	Design Flow (l/min)	Value 'B' FAD (l)
	<500	1 x 200% x DF
	500 - 2000	2 x 66.6% x DF
	2001 - 3500	2 x 50% x DF
>3500	3 x 33.3% x DF	

Table 2: Surgical Air Receiver Multiplier Value 'B'



Example

Flow Rate and Dryer Sizing

Medical Air DF = 1550 l/min (FAD) (4 Bar)

Surgical Air DF = 1550 l/min (FAD) (7 Bar)

Combined/total DF = 3100 l/min (FAD) (11 Bar high pressure system)

A dryer greater than 3100 l/min outlet flow should be selected

(Outlet flow is the inlet flow minus purge losses)

= PureMed45 inlet flow 3645 l/min, outlet flow 3142 l/min

Flow Rate and Compressor Sizing

From Table 1 surgical air DF is between 500-3500 l/min, so the multiplying factor 'A' = 0.66

Compressor flow rate = Med. DF + (Surg. DF x A)

= 1550 + (1550 x 0.66)

= 1550 + 1023

= 2573 l/min

We also need to add the purge losses to the compressor output. For additional purge consumption use:-

Inlet - outlet = purge losses l/min

= 3645 - 3142 = 503 l/min

Compressors should be selected with a flow rate greater than

2573 l/min + 503 l/min = 3076 l/min

Receiver Sizing

From Table 2 surgical air DF is between 500-2000 l/min, so the multiplying factor 'B' = 2 x 2/3

Capacity = (Med. DF x 0.5) + (Surg. DF x B)

= (1638 x 0.5) + (1638 x 2 x 2/3)

= 819 + 2162

= 2981 litres

A combination of receivers with a minimum number of 2 should be selected

Selected receiver capacity = 3000 litres (2 x 1500 litre)

Plant System Selection

Selected plant part number = MEDAIR-4555-10GQ

If no standard model is available for selection from the standard range a bespoke configuration of dryer, compressors and receivers are available and can be quoted by our sales and sales support teams.



Receiver Selection Table

Receiver Capacity (litres)	250	500	1000	1500	2000	3000
Maximum working pressure (bar)	11	11	11	11	11	11
Receiver Dimensions (diameter, height) mm	457/2020	610/2105	762/2630	900/2670	1067/2775	1220/3050
Receiver Weight (kg)	155	195	380	520	800	1000
Receiver Inlet/Outlet (mm)	28	28	42	42	42	42
Receiver Part Number	8102340570	8102340574	8102340576	8102340578	8102340580	8102340582
Receiver Kit *	8102340590	8102340594	8102340596	8102340598	8102340600	8102340602

Receiver Capacity (litres)	250	500	1000	1500	2000	3000
Maximum working pressure (bar)	14	14	14	14	14	14
Receiver Dimensions (diameter, height) mm	457/2050	610/2105	762/2650	915/2650	1067/2725	1220/3200
Receiver Weight (kg)	160	200	500	575	950	1400
Receiver Inlet/Outlet (mm)	28	28	42	42	42	42
Receiver Part Number	8102340571	8102340575	8102340577	8102340579	8102340581	8102340583
Receiver Kit *	8102340591	8102340595	8102340597	8102340599	8102340601	8102340603

* Receiver kit complete with pressure safety valve, zero loss electronic drain valve (with isolation and bypass valve), pressure gauge (with isolation valve), pressure relief valve, fusible plug, copper inlet/outlet connection pipes (each with isolation valve).

For single vessel applications, lockable bypass line valves are available.

28mm lockable line valve - 6000723

42mm lockable line valve - 6000725



Dryer Selection Table

Model Name	PureMED25	PureMED35	PureMED45	PureMED100	PureMED145
Inlet flow (l/min) at 7.5 bar	1500	2100	2700	6000	8700
Outlet flow (l/min) at 4 bar line pressure *	1222	1711	2200	4890	7090
Inlet flow (l/min) at 10 bar	1800	2520	3240	7200	10440
Outlet flow (l/min) at 7 bar line pressure *	1523	2132	2741	6091	8832
Inlet flow (l/min) at 13 bar	2025	2835	3645	8100	11745
Outlet flow (l/min) at 10 bar line pressure *	1746	2444	3142	6982	10124
Footprint L x W x H (mm)	1720 x 1130 x 1590	1720 x 1130 x 1590	1720 x 1130 x 1590	1720 x 1470 x 1610	1720 x 1470 x 2060
Dryer weight (kg)	400	407	434	689	845
Inlet/outlet connection (mm)	15	15	28	28	28
Supply voltage (v)	115/220	115/220	115/220	115/220	115/220
Supply frequency (Hz)	60	60	60	60	60
Central control supply – single phase (mm2/Amps)	1.5 (2)	1.5 (2)	1.5 (2)	1.5 (2)	1.5 (2)
Part number – Dryer @ 4 bar outlet	8102370190	8102370193	8102370196	8102370199	8102370202
Part number – Dryer @ 7 bar outlet	8102370191	8102370194	8102370197	8102370200	8102370203
Part number – Dryer @ 10 bar outlet	8102370192	8102370195	8102370198	8102370201	8102370204

*Output flow rate includes calculated purge lost during the regeneration process.



Compressor Selection Table – Fixed Speed – GA MED

Model Name	GA5 MED	GA7 MED	GA11 MED	GA15 MED	GA18 MED	GA22 MED	GA26 MED
Output flow (l/min) 7.3 bar variant *	900	1260	1824	2718	3384	3954	4446
Outlet flow (l/min) 10.8 bar variant *	702	1032	1494	2286	2730	3216	3738
Output flow (l/min) 12.5 bar variant *	510	852	1320	1854	2460	2862	3450
Footprint L x W x H (mm)	1140 x 700 x 1240	1140 x 700 x 1240	1140 x 700 x 1240	1280 x 780 x 1220	1280 x 780 x 1220	1280 x 780 x 1220	1280 x 780 x 1220
Compressor weight (kg)	270	284	310	455	464	480	490
Service connection (mm)	22	22	22	22	22	22	22
Noise level (dB[A])	60	61	62	65	67	68	69
Maximum ambient temperature (°C)	46	46	46	46	46	46	46
Supply voltage (v)	380	380	380	380	380	380	380
Supply frequency (Hz)	60	60	60	60	60	60	60
Nominal motor rating (kW)	5	7	11	15	18	22	26
Full load current per compressor (A)	17	22	32	29.7	35.7	42	50.2
Starting current (A)	76.3	106	146	103.95	124.95	163.8	220.88
Cooling air flow / compressor (m³/s)	0.8	0.8	1	0.6	1	1	1.2
Part number – 7.3 bar	8153 0345 44	8153 0345 51	8153 0345 69	8153 6165 22	8153 6165 55	8153 6165 89	8153 6166 13
Part number – 10.8 bar	8152 0343 04	8153 0343 20	8153 0343 46	8153 6165 30	8153 6165 63	8153 6165 97	8153 6166 21
Part number – 12.5 bar	8153 0343 12	8153 0343 38	8153 0343 53	8153 6165 48	8153 6165 71	8153 6166 05	8153 6166 39
Drawing number	9828 4969 26	9828 4969 26	9828 4969 26	9828083180	9828083180	9828083180	9828083180



Compressor Selection Table – Variable Speed – GA VSD+ MED

Model Name	GA7 VSD+ MED	GA11 VSD+ MED	GA15 VSD+ MED	GA18 VSD+ MED	GA22 VSD+ MED	GA26 VSD+ MED	GA30 VSD+ MED	GA37 VSD+ MED
Output flow (l/min) 7 bar variant *	1302	1950	2508	3750	4506	5148	5844	6900
Outlet flow (l/min) 10 bar variant *	1080	1632	2130	3216	3912	4704	5136	6138
Output flow (l/min) 13 bar variant *	852	1410	1674	2610	3246	3870	4320	5202
Footprint L x W x H (mm)	720 x 630 x 1420	720 x 630 x 1420	720 x 630 x 1420	990 x 790 x 1590	990 x 790 x 1590	990 x 790 x 1590	990 x 790 x 1590	990 x 790 x 1590
Compressor weight (kg)	208	211	214	387	387	393	396	396
Service connection (mm)	22	22	22	22	22	22	22	22
Noise level (dB[A])	62	63	64	67	67	67	67	67
Maximum ambient temperature (°C)	46	46	46	46	46	46	46	46
Supply voltage (v)	380-460	380-460	380-460	380-460	380-460	380-460	380-460	380-460
Supply frequency (Hz)	60	60	60	60	60	60	60	60
Nominal motor rating (kW) (1900 rpm – 5250 rpm full load)	2.9 – 7.9	2.9 – 12.1	3 – 17.1	5 – 20.1	5.1 - 24	5. - 29	5. – 34.3	5.4 - 41.2
Full load current per compressor (A)	tbc	tbc	tbc	tbc	tbc	tbc	tbc	tbc
Cooling air flow per Compressor (m ³ /s)	0.8	0.8	0.8	1.3	1.3	1.6	1.6	1.6
Part number	8102 3414 21	8102 3414 24	8102 3414 27	8102 3414 30	8102 3414 33	8102 3414 36	8102 3414 39	8102 3414 42

*Variable speed drive compressor operate from 4-13 bar – start current not applicable for VSD



Compressor Selection Table – Fixed Speed – LE MED

Model Name	LE5 MED	LE7 MED	LE10 MED	LE15 MED	LE20 MED
Outlet flow (l/min) 10 bar *	540	816	1008	1734	2004
Footprint L x W x H (mm)	600 x 1000 x 756	600 x 1000 x 836	600 x 1000 x 836	600 x 1000 x 928	600 x 1000 x 928
Compressor weight (kg)	90	110	120	200	220
Service connection (mm)	22	22	22	22	22
Noise level (dB[A])	81	82	81	89	87.5
Maximum ambient temperature (°C)	40	40	40	40	40
Supply voltage (v)	380	380	380	380	380
Supply frequency (Hz)	60	60	60	60	60
Nominal motor rating (kW)	4	5.5	7.5	11	15
Full load current per compressor (A)	9.5	13.3	19	28.5	38
Cooling air flow per Compressor (m ³ /s)	0.16	0.5	0.5	0.75	0.75
Part number - 10 bar	8102 3399 24	8102 3399 28	8102 3399 13	8102 3399 16	8102 3399 20



Standard Plant Range

HTM 02-01 4 Bar 60Hz Medical Air Plant Specifications – GA MED

Part Number	Model Ref.	Free Air Delivered (l/min) ⁽¹⁾	Nominal Motor Power per Compressor (kW)	Compressor Model (7 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) ⁽²⁾	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) ⁽⁴⁾	Cooling air flow per compressor (m ³ /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (420kPa)
8102340780	MEDAIR-500-4GT	500	5	GA5 MED	380 V 3~ 60 Hz	SD	17	76.3	32	Triplex	1	2	60	0.8	3.6	1	250	250	PureMED25
8102340781	MEDAIR-630-4GT	630	5	GA5 MED	380 V 3~ 60 Hz	SD	17	76.3	32	Triplex	1	2	60	0.8	3.6	2	250	500	PureMED25
8102340782	MEDAIR-990-4GT	990	7	GA7 MED	380 V 3~ 60 Hz	SD	22	106	32	Triplex	1	2	61	0.8	3.7	2	250	500	PureMED25
8102340783	MEDAIR-1230-4GT	1230	11	GA11 MED	380 V 3~ 60 Hz	SD	32	146	40	Triplex	1	2	62	1	5.1	2	500	1000	PureMED25
8102340784	MEDAIR-1445-4GT	1446	11	GA11 MED	380 V 3~ 60 Hz	SD	32	146	40	Triplex	1	2	62	1	5.1	2	500	1000	PureMED35
8102340785	MEDAIR-1720-4GT	1722	15	GA15 MED	380 V 3~ 60 Hz	SD	29.7	103.9	50	Triplex	1	2	65	0.6	12.2	2	500	1000	PureMED35
8102340786	MEDAIR-2000-4GT	2000	15	GA15 MED	380 V 3~ 60 Hz	SD	29.7	103.9	50	Triplex	1	2	65	0.6	12.2	2	500	1000	PureMED45
8102340788	MEDAIR-2815-4GT	2814	22	GA22 MED	380 V 3~ 60 Hz	SD	42	163.8	80	Triplex	1	2	68	1	12.2	2	1000	2000	PureMED100
8102340789	MEDAIR-3305-4GT	3306	26	GA26 MED	380 V 3~ 60 Hz	SD	50.2	220.9	80	Triplex	1	2	69	1.2	12.2	2	1000	2000	PureMED100
8102340790	MEDAIR-4000-4GQ	4000	15	GA15 MED	380 V 3~ 60 Hz	SD	29.7	103.9	50	Quadruplex	2	2	65	0.6	12.2	2	1000	2000	PureMED100
8102340791	MEDAIR-4860-4GQ	4860	18	GA18 MED	380 V 3~ 60 Hz	SD	35.7	124.9	63	Quadruplex	2	2	67	1	12.2	2	1500	3000	PureMED100
8102340792	MEDAIR-5115-4GQ	5115	18	GA18 MED	380 V 3~ 60 Hz	SD	35.7	124.9	63	Quadruplex	2	2	67	1	12.2	2	1500	3000	PureMED145
8102340793	MEDAIR-6000-4GQ	6000	22	GA22 MED	380 V 3~ 60 Hz	SD	42	163.8	80	Quadruplex	2	2	68	1	12.2	2	1500	3000	PureMED145
8102340794	MEDAIR-6255-4GQ	6255	22	GA22 MED	380 V 3~ 60 Hz	SD	42	163.8	80	Quadruplex	2	2	68	1	12.2	2	2000	4000	PureMED145
8102340795	MEDAIR-7045-4GQ	7047	26	GA26 MED	380 V 3~ 60 Hz	SD	50.2	220.9	80	Quadruplex	2	2	69	1.2	12.2	2	2000	4000	PureMED145

1. Data measured and stated in accordance with ISO1217 Ed.4, Annex C & Annex E and Pneurop/Cagi PN2CPTC2 with one compressor on standby and with an air intake at 1013 mbar, 20°C and 0% RH. Tropical thermostats may reduce the free air delivery marginally.
2. These are typical figures and may vary with the specific motor used. Consult the motor nameplate for exact figures.
3. Two standby compressors should be provided unless the automatic backup manifold is of sufficient capacity to deliver the system design flow.
4. Measured in free field conditions in accordance with the Pneurop/Cagi PN8TNC2.2 test code. Subject to a tolerance of +/- 3 dB
5. Other models and layouts are available to suit particular site requirements. Contact your local representative for support.
6. Design flow in terms of free air delivered after losses at working pressure with reserve compressor(s) on standby. Tolerance ±5%.



HTM 02-01 7 Bar 60Hz Combined Medical and Surgical Air Plant Specifications – GA MED

Part Number	Model Ref.	Free Air Delivered (l/min) ⁽¹⁾	Nominal Motor Power per Compressor (kW)	Compressor Model (9.5 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) ⁽²⁾	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) ⁽⁴⁾	Cooling air flow per compressor (m ³ /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (800kPa)
8102340800	MEDAIR-650-7GT	432	5	GA5 MED	380 V 3~ 60 Hz	SD	17	76.3	32	Triplex	1	2	60	0.8	3.6	2	500	1000	PureMED25
8102340801	MEDAIR-800-7GT	762	7	GA7 MED	380 V 3~ 60 Hz	SD	22	106	32	Triplex	1	2	61	0.8	3.7	2	500	1000	PureMED25
8102340802	MEDAIR-1145-7GT	762	7	GA7 MED	380 V 3~ 60 Hz	SD	22	106	32	Triplex	1	2	61	0.8	3.7	2	1000	2000	PureMED25
8102340803	MEDAIR-1530-7GT	1224	11	GA11 MED	380 V 3~ 60 Hz	SD	32	146	40	Triplex	1	2	62	1	5.1	2	1000	2000	PureMED25
8102340804	MEDAIR-2140-7GT	1908	15	GA15 MED	380 V 3~ 60 Hz	SD	29.7	103.9	50	Triplex	1	2	65	0.6	12.2	2	1000	2000	PureMED35
8102340805	MEDAIR-2600-7GT	2160	18	GA18 MED	380 V 3~ 60 Hz	SD	35.7	124.9	63	Triplex	1	2	67	1	12.2	2	1500	3000	PureMED45
8102340806	MEDAIR-3030-7GT	2646	22	GA22 MED	380 V 3~ 60 Hz	SD	42	163.8	80	Triplex	1	2	68	1	12.2	2	1500	3000	PureMED45
8102340807	MEDAIR-3130-7GT	2598	26	GA26 MED	380 V 3~ 60 Hz	SD	50.2	220.9	80	Triplex	1	2	69	1.2	12.2	2	1500	3000	PureMED100
8102340808	MEDAIR-4000-7GQ	3432	15	GA15 MED	380 V 3~ 60 Hz	SD	29.7	103.9	50	Quadruplex	2	2	65	1.2	12.2	2	1500	3000	PureMED100
8102340809	MEDAIR-4135-7GQ	3432	15	GA15 MED	380 V 3~ 60 Hz	SD	29.7	103.9	50	Quadruplex	2	2	65	0.6	12.2	2	2000	4000	PureMED100
8102340810	MEDAIR-5205-7GQ	4320	18	GA18 MED	380 V 3~ 60 Hz	SD	35.7	124.9	63	Quadruplex	2	2	67	1	12.2	2	2000	4000	PureMED100
8102340811	MEDAIR-6000-7GQ	5292	22	GA22 MED	380 V 3~ 60 Hz	SD	42	163.8	80	Quadruplex	2	2	68	1	12.2	3	1500	4500	PureMED100
8102340813	MEDAIR-6370-7GQ	4779	22	GA22 MED	380 V 3~ 60 Hz	SD	42	163.8	80	Quadruplex	2	2	68	1	12.2	3	2000	6000	PureMED145
8102340814	MEDAIR-6940-7GP	5205	15	GA15MED	380 V 3~ 60 Hz	SD	29.7	103.9	50	Pentaplex	3	2	65	0.6	12.2	4	2000	8000	PureMED145
8102340815	MEDAIR-7765-7GQ	5823	26	GA26 MED	380 V 3~ 60 Hz	SD	50.2	220.9	80	Quadruplex	2	2	69	1.2	12.2	3	2000	6000	PureMED145
8102340816	MEDAIR-8715-7GP	6537	18	GA18 MED	380 V 3~ 60 Hz	SD	35.7	124.9	80	Pentaplex	3	2	67	1	12.2	4	2000	8000	PureMED145

1. Data measured and stated in accordance with ISO1217 Ed.4, Annex C & Annex E and Pneurop/Cagi PN2CPTC2 with one compressor on standby and with an air intake at 1013 mbar, 20°C and 0% RH. Tropical thermostats may reduce the free air delivery marginally.
For 7000kPa and 1000kPa, plant capacity is rated with a 50/50 split of surgical and medical air (within the design parameters stated in HTM 02-01).
2. These are typical figures and may vary with the specific motor used. Consult the motor nameplate for exact figures.
3. Two standby compressors should be provided unless the automatic backup manifold is of sufficient capacity to deliver the system design flow.
4. Measured in free field conditions in accordance with the Pneurop/Cagi PN8TNC2.2 test code. Subject to a tolerance of +/- 3 dB
5. Other models and layouts are available to suit particular site requirements. Contact your local representative for support.
6. Design flow in terms of free air delivered after losses at working pressure with reserve compressor(s) on standby. Tolerance ±5%.



HTM 02-01 10 Bar 60Hz Combined Medical and Surgical Air Plant Specifications – GA MED

Part Number	Model Ref.	Free Air Delivered (l/min) ⁽¹⁾	Nominal Motor Power per Compressor (kW)	Compressor Model (1.5 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) ⁽²⁾	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) ⁽⁴⁾	Cooling air flow per compressor (m ³ /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (1100kPa)
8102340820	MEDAIR-800-10GT	582	7	GA7 MED	380 V 3~ 60 Hz	SD	22	106	32	Triplex	1	2	61	0.8	3.7	2	500	1000	PureMED25
8102340821	MEDAIR-875-10GT	582	7	GA7 MED	380 V 3~ 60 Hz	SD	22	106	32	Triplex	1	2	61	0.8	3.7	2	1000	2000	PureMED25
8102340822	MEDAIR-1580-10GT	1050	11	GA11 MED	380 V 3~ 60 Hz	SD	32	146	40	Triplex	1	2	62	1	5.1	2	1000	2000	PureMED25
8102340823	MEDAIR-1755-10GT	1584	15	GA15 MED	380 V 3~ 60 Hz	SD	29.7	103.9	50	Triplex	1	2	65	0.6	12.2	2	1000	2000	PureMED25
8102340825	MEDAIR-2180-10GT	2082	18	GA18 MED	380 V 3~ 60 Hz	SD	35.7	124.9	63	Triplex	1	2	67	1	12.2	2	1000	2000	PureMED35
8102340826	MEDAIR-2455-10GT	2457	22	GA22 MED	380 V 3~ 60 Hz	SD	42	163.8	80	Triplex	1	2	68	1	12.2	2	1500	3000	PureMED35
8102340827	MEDAIR-2760-10GT	2292	22	GA22 MED	380 V 3~ 60 Hz	SD	42	163.8	80	Triplex	1	2	68	1	12.2	2	1500	3000	PureMED45
8102340830	MEDAIR-4555-10GQ	3780	18	GA18 MED	380 V 3~ 60 Hz	SD	35.7	124.9	63	Quadruplex	2	2	67	1	12.2	2	2000	4000	PureMED100
8102340831	MEDAIR-5525-10GQ	4584	22	GA22 MED	380 V 3~ 60 Hz	SD	42	163.8	80	Quadruplex	2	2	68	1	12.2	3	1500	4500	PureMED100
8102340832	MEDAIR-6000-10GP	5727	18	GA18 MED	380 V 3~ 60 Hz	SD	35.7	124.9	63	Pentaplex	3	2	67	1	12.2	3	1500	4500	PureMED145
8102340834	MEDAIR-6960-10GQ	5760	26	GA26 MED	380 V 3~ 60 Hz	SD	50.2	220.9	80	Quadruplex	2	2	69	1.2	12.2	3	2000	6000	PureMED100
8102340835	MEDAIR-7635-10GP	5727	18	GA18 MED	380 V 3~ 60 Hz	SD	35.7	124.9	63	Pentaplex	3	2	67	1	12.2	3	2000	6000	PureMED145
8102340836	MEDAIR-8000-10GP	6933	22	GA22 MED	380 V 3~ 60 Hz	SD	42	163.8	80	Pentaplex	3	2	68	1	12.2	3	2000	6000	PureMED145
8102340837	MEDAIR-9245-10GP	6933	22	GA22 MED	380 V 3~ 60 Hz	SD	42	163.8	80	Pentaplex	3	2	68	1	12.2	4	2000	8000	PureMED145
8102340838	MEDAIR-10090-10GP	8697	26	GA26 MED	380 V 3~ 60 Hz	SD	50.2	220.9	80	Pentaplex	3	2	69	1.2	12.2	4	2000	8000	PureMED145

1. Data measured and stated in accordance with ISO1217 Ed.4, Annex C & Annex E and Pneurop/Cagi PN2CPTC2 with one compressor on standby and with an air intake at 1013 mbar, 20°C and 0% RH. Tropical thermostats may reduce the free air delivery marginally.
For 7000kPa and 1000kPa, plant capacity is rated with a 50/50 split of surgical and medical air (within the design parameters stated in HTM 02-01).
2. These are typical figures and may vary with the specific motor used. Consult the motor nameplate for exact figures.
3. Two standby compressors should be provided unless the automatic backup manifold is of sufficient capacity to deliver the system design flow.
4. Measured in free field conditions in accordance with the Pneurop/Cagi PN8TNC2.2 test code. Subject to a tolerance of +/- 3 dB
5. Other models and layouts are available to suit particular site requirements. Contact your local representative for support.
6. Design flow in terms of free air delivered after losses at working pressure with reserve compressor(s) on standby. Tolerance ±5%.



HTM 02-01 4 Bar 60Hz Medical Air Plant Specifications – GA VSD+ MED

Part Number	Model Ref.	Free Air Delivered (l/min) ⁽¹⁾	Nominal Motor Power per Compressor (kW)	Compressor Model (7.5 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) ⁽²⁾	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) ⁽⁴⁾	Cooling air flow per compressor (m ³ /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169-1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (420kPa)
8102342350	MEDAIR-500-4GTV	500	2.9 - 7.9	GA7 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	62	0.8	tbc	1	250	250	PureMED25
8102342351	MEDAIR-1000-4GTV	1000	2.9 - 7.9	GA7 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	62	0.8	tbc	2	250	500	PureMED25
8102342352	MEDAIR-1030-4GTV	1032	2.9 - 7.9	GA7 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	62	0.8	tbc	2	500	1000	PureMED25
8102342353	MEDAIR-1230-4GTV	1230	2.9 - 12.1	GA11 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	63	0.8	tbc	2	500	1000	PureMED25
8102342354	MEDAIR-1230-4GQV	1230	2.9 - 7.9	GA7 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	62	0.8	tbc	2	500	1000	PureMED25
8102342355	MEDAIR-1570-4GTV	1572	2.9 - 12.1	GA11 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	63	0.8	tbc	2	500	1000	PureMED35
8102342356	MEDAIR-1720-4GTV	1722	3 - 17.1	GA15 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	64	0.8	tbc	2	500	1000	PureMED35
8102342357	MEDAIR-1720-4GQV	1722	2.9 - 12.1	GA11 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	63	0.8	tbc	2	500	1000	PureMED35
8102342358	MEDAIR-1940-4GTV	1938	3 - 17.1	GA15 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	64	0.8	tbc	2	500	1000	PureMED45
8102342359	MEDAIR-2035-4GQV	2034	2.9 - 12.1	GA7 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	62	0.8	tbc	2	1000	2000	PureMED45
8102342361	MEDAIR-2610-4GTV	2610	5 - 20.1	GA18 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.3	tbc	2	1000	2000	PureMED100
8102342362	MEDAIR-2760-4GQV	2760	2.9 - 12.1	GA11 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	63	0.8	tbc	2	1000	2000	PureMED100
8102342363	MEDAIR-3365-4GTV	3366	5.1 - 24	GA22 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.3	tbc	2	1000	2000	PureMED100
8102342364	MEDAIR-3875-4GQV	3876	3 - 17.1	GA15 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	64	0.8	tbc	2	1000	2000	PureMED100
8102342365	MEDAIR-4000-4GTV	4000	5 - 29	GA26 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	2	1000	2000	PureMED100
8102342366	MEDAIR-4705-4GTV	4704	5 - 34.3	GA30 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	2	1500	3000	PureMED100
8102342367	MEDAIR-4860-4GTV	4860	5.4 - 41.2	GA37 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	2	1500	3000	PureMED100
8102342368	MEDAIR-4860-4GQV	4860	5.1 - 24	GA22 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	2	1500	3000	PureMED100
8102342369	MEDAIR-5245-4GTV	5247	5.1 - 24	GA37 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	2	1500	3000	PureMED145
8102342370	MEDAIR-5845-4GQV	5847	5 - 20.1	GA18 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	2	1500	3000	PureMED145
8102369716	MEDAIR-6000-4GQV	6000	5.1 - 24	GA22 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	2	1500	3000	PureMED145
8102369717	MEDAIR-7045-4GQV	7047	5.1 - 24	GA22 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	2	2000	4000	PureMED145



HTM 02-01 7 Bar 60Hz Combined Medical and Surgical Air Plant Specifications – GA VSD+ MED

Part Number	Model Ref.	Free Air Delivered (l/min) ⁽¹⁾	Nominal Motor Power per Compressor (kW)	Compressor Model (13 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) ⁽²⁾	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) ⁽³⁾	Cooling air flow per compressor (m ³ /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (1100kPa)
8102369950	MEDAIR-800-7GTV	810	2.9 – 7.9	GA7 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	62	0.8	tbc	2	500	1000	PureMED25
8102369951	MEDAIR-975-7GTV	810	2.9- 7.9	GA7 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	62	0.8	tbc	2	1000	2000	PureMED25
8102369952	MEDAIR-1530-7GTV	1362	2.9 – 12.1	GA11 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	63	0.8	tbc	2	1000	2000	PureMED25
8102369953	MEDAIR-2110-7GTV	1752	3 – 17.1	GA15 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	64	0.8	tbc	2	1000	2000	PureMED35
8102369955	MEDAIR-3340-7GTV	2772	5.1 – 24	GA22 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.3	tbc	2	2000	4000	PureMED100
8102369956	MEDAIR-4000-7GTV	3564	5 – 29	GA26 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	2	1500	3000	PureMED100
8102369957	MEDAIR-4295-7GTV	3564	5 – 29	GA26 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	2	2000	4000	PureMED100
8102369958	MEDAIR-4815-7GTV	3996	5 – 34.3	GA30 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	2	2000	4000	PureMED100
8102369959	MEDAIR-5330-7GTV	4998	5.4 – 41.2	GA37 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	2	2000	4000	PureMED100
8102369960	MEDAIR-6000-7GTV	4998	5.4 – 41.2	GA37 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	3	1500	4500	PureMED100
8102369961	MEDAIR-6060-7GQV	5292	5 – 20.1	GA18 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	2	3000	6000	PureMED100
8102369962	MEDAIR-6060-7GQV	5292	5 – 20.1	GA18 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	3	2000	6000	PureMED100
8102369963	MEDAIR-8000-7GQV	6171	5.1 – 24	GA22 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	2	3000	6000	PureMED145
8102369964	MEDAIR-8000-7GQV	6171	5.1 – 24	GA22 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	3	2000	6000	PureMED145
8102369965	MEDAIR-8228-7GQV	6171	5.1 – 24	GA22 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	3	3000	9000	PureMED145
8102369966	MEDAIR-8787-7GQV	7755	5 – 29	GA26 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.6	tbc	3	3000	9000	PureMED145
8102369967	MEDAIR-8787-7GPV	7995	5 – 20.1	GA18 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Pentaplex	3	2	67	1.3	tbc	3	3000	9000	PureMED145

- Data measured and stated in accordance with ISO1217 Ed.4, Annex C & Annex E and Pneurop/Cagi PN2CPTC2 with one compressor on standby and with an air intake at 1013 mbar, 20°C and 0% RH. Tropical thermostats may reduce the free air delivery marginally.
For 700kPa and 1000kPa, combined air plant capacity is rated with a 50/50 split of surgical and medical air (within the design parameters stated in HTM 02-01).
- These are typical figures and may vary with the specific motor used. Consult the motor nameplate for exact figures.
- Two standby compressors should be provided unless the automatic backup manifold is of sufficient capacity to deliver the system design flow.
- Measured in free field conditions in accordance with the Pneurop/Cagi PN8TNC.2 test code. Subject to a tolerance of +/- 3 dB
- Other models and layouts are available to suit particular site requirements. Contact your local representative for support.
- Design flow in terms of free air delivered after losses at working pressure with reserve compressor(s) on standby. Tolerance ±5%.



HTM 02-01 10 Bar 60Hz Combined Medical and Surgical Air Plant Specifications – GA VSD+ MED

Part Number	Model Ref.	Free Air Delivered (l/min) ⁽¹⁾	Nominal Motor Power per Compressor (kW)	Compressor Model (13 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) ⁽²⁾	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) ⁽⁴⁾	Cooling air flow per compressor (m ³ /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (1100kPa)
8102342380	MEDAIR-800-10GTV	582	2.9 - 7.9	GA7 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	62	0.8	tbc	2	500	1000	PureMED25
8102342381	MEDAIR-875-10GTV	582	2.9 - 7.9	GA7 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	62	0.8	tbc	2	1000	2000	PureMED25
8102342382	MEDAIR-1600-10GTV	1140	2.9 - 12.1	GA11 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	63	0.8	tbc	2	1000	2000	PureMED25
8102342383	MEDAIR-1690-10GTV	1404	3 - 17.1	GA15 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	64	0.8	tbc	2	1000	2000	PureMED25
8102342384	MEDAIR-2180-10GTV	2232	5 - 20.1	GA18 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.3	tbc	2	1000	2000	PureMED35
8102342385	MEDAIR-2455-10GTV	2232	5 - 20.1	GA18 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.3	tbc	2	1500	3000	PureMED35
8102342388	MEDAIR-3830-10GTV	3180	5 - 34.3	GA30 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	2	2000	4000	PureMED100
8102342389	MEDAIR-4365-10GTV	4062	5.4 - 41.2	GA37 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	2	2000	4000	PureMED100
8102342390	MEDAIR-4895-10GTV	4062	5.4 - 41.2	GA37 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	2	3000	6000	PureMED100
8102342391	MEDAIR-4895-10GTV	4062	5.4 - 41.2	GA37 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Triplex	1	2	67	1.6	tbc	3	1500	4500	PureMED100
8102342392	MEDAIR-4915-10GQV	4080	5 - 20.1	GA18 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	2	2000	4000	PureMED100
8102342393	MEDAIR-5335-10GQV	5352	5.1 - 24	GA22 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	2	2000	4000	PureMED100
8102342394	MEDAIR-6000-10GQV	5352	5.1 - 24	GA22 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	3	1500	4500	PureMED100
8102342395	MEDAIR-6450-10GQV	5352	5.1 - 24	GA22 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	2	3000	6000	PureMED100
8102342396	MEDAIR-6450-10GQV	5352	5.1 - 24	GA22 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.3	tbc	3	2000	6000	PureMED100
8102342397	MEDAIR-6960-10GQV	6600	5 - 29	GA26 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.6	tbc	2	3000	6000	PureMED100
8102342398	MEDAIR-6960-10GQV	6600	5 - 29	GA26 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.6	tbc	3	2000	6000	PureMED100
8102342399	MEDAIR-7335-10GQV	6087	5 - 29	GA26 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.6	tbc	3	2000	6000	PureMED145
8102342402	MEDAIR-8000-10GPV	6177	5 - 20.1	GA18 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Pentaplex	3	2	67	1.3	tbc	3	2000	6000	PureMED145
8102342401	MEDAIR-8000-10GQV	6987	5 - 34.3	GA30 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.6	tbc	3	2000	6000	PureMED145
8102342403	MEDAIR-8235-10GPV	6177	5 - 20.1	GA18 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Pentaplex	3	2	67	1.3	tbc	3	3000	9000	PureMED145
8102342404	MEDAIR-8420-10GQV	6987	5 - 34.3	GA30 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.6	tbc	3	3000	9000	PureMED145
8102342405	MEDAIR-10090-10GQV	8751	5.4 - 41.2	GA37 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Quadruplex	2	2	67	1.6	tbc	3	3000	9000	PureMED145
8102342406	MEDAIR-10090-10GPV	8085	5.1 - 24	GA22 VSD+	380 V 3~ 60Hz	DOL	tbc	n/a	tbc	Pentaplex	3	2	67	1.4	tbc	3	3000	9000	PureMED145



HTM 02-01 10 Bar 60Hz Surgical Air Plant Specifications – GA VSD+ MED

Part Number	Model Ref.	Free Air Delivered (l/min) ⁽¹⁾	Nominal Motor Power per Compressor (kW)	Compressor Model (13 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) ⁽²⁾	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) ⁽⁴⁾	Cooling air flow per compressor (m ³ /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (1100kPa)
8102342410	MEDAIR-800-10GSV	882	2.9 – 7.9	GA7 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	62	0.8	tbc	2	500	1000	PureMED25
8102342411	MEDAIR-1725-10GSV	1727	2.9 – 12.1	GA11 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	63	0.8	tbc	2	1000	2000	PureMED25
8102342412	MEDAIR-1965-10GSV	1964	3 – 17.1	GA15 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	64	0.8	tbc	2	1000	2000	PureMED35
8102342413	MEDAIR-2455-10GSV	2457	5 – 20.1	GA18 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.3	tbc	2	1500	3000	PureMED35
8102342414	MEDAIR-3090-10GSV	3091	5 – 20.1	GA18 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.3	tbc	2	2000	4000	PureMED45
8102342416	MEDAIR-4000-10GSV	4000	5 – 29	GA26 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.6	tbc	2	2000	4000	PureMED100
8102342417	MEDAIR-4135-10GSV	4136	5 – 29	GA26 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.6	tbc	2	3000	6000	PureMED100
8102342418	MEDAIR-4135-10GSV	4136	5 – 29	GA26 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.6	tbc	3	1500	4500	PureMED100
8102342419	MEDAIR-4500-10GSV	4500	5 – 34.3	GA30 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.6	tbc	3	1500	4500	PureMED100
8102342420	MEDAIR-4820-10GSV	4818	5 – 34.3	GA30 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.6	tbc	2	3000	6000	PureMED100
8102342421	MEDAIR-4820-10GSV	4818	5 – 34.3	GA30 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.6	tbc	3	2000	6000	PureMED100
8102342422	MEDAIR-6000-10GSV	6000	5.4 – 41.2	GA37 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.6	tbc	2	3000	6000	PureMED100
8102342423	MEDAIR-6000-10GSV	6000	5.4 – 41.2	GA37 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.6	tbc	3	2000	6000	PureMED100
8102342424	MEDAIR-6960-10GSV	6960	5.4 – 41.2	GA37 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.3	tbc	3	3000	9000	PureMED100
8102342425	MEDAIR-6960-10GSV	6960	5.4 – 41.2	GA37 VSD+	380 V 3– 60Hz	DOL	tbc	n/a	tbc	Simplex	1	-	67	1.3	tbc	4	2000	8000	PureMED100

1. Data measured and stated in accordance with ISO1217 Ed.4, Annex C & Annex E and Pneurop/Cagi PN2CPTC2 with one compressor on standby and with an air intake at 1013 mbar, 20°C and 0% RH. Tropical thermostats may reduce the free air delivery marginally.
2. These are typical figures and may vary with the specific motor used. Consult the motor nameplate for exact figures.
3. Two standby compressors should be provided unless the automatic backup manifold is of sufficient capacity to deliver the system design flow.
4. Measured in free field conditions in accordance with the Pneurop/Cagi PN8TNC2.2 test code. Subject to a tolerance of +/- 3 dB
5. Other models and layouts are available to suit particular site requirements. Contact your local representative for support.
6. Design flow in terms of free air delivered after losses at working pressure with reserve compressor(s) on standby. Tolerance ±5%.



HTM 02-01 7 Bar 60Hz Combined Medical and Surgical Air Plant Specifications – LE MED

Part Number	Model Ref.	Free Air Delivered (l/min) ⁽¹⁾	Nominal Motor Power per Compressor (kW)	Compressor Model (10 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) ⁽²⁾	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) ⁽⁴⁾	Cooling air flow per compressor (m ³ /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (800kPa)
8102342160	MEDAIR-400-7LET	312	4	LE5-10	380 V 3~ 60Hz	SD	9.5	tbc	tbc	Triplex	1	2	81	0.16	0.8	1	500	500	PureMED25
8102369749	MEDAIR-470-7LET	312	4	LE5-10	380 V 3~ 60Hz	SD	9.5	tbc	tbc	Triplex	1	2	81	0.16	10.8	2	500	1000	PureMED25
8102342161	MEDAIR-820-7LET	546	5.5	LE7-10	380 V 3~ 60Hz	SD	13.3	tbc	tbc	Triplex	1	2	82	0.5	1.4	2	1000	2000	PureMED25
8102342162	MEDAIR-990-7LET	822	7.5	LE10-10	380 V 3~ 60Hz	SD	19	tbc	tbc	Triplex	1	2	81	0.5	5.4	2	1000	2000	PureMED25
8102342163	MEDAIR-1530-7LET	1452	11	LE15-10	380 V 3~ 60Hz	SD	28.5	tbc	tbc	Triplex	1	2	89	0.75	5.4	2	1000	2000	PureMED25
8102342164	MEDAIR-1620-7LET	1344	11	LE15-10	380 V 3~ 60Hz	SD	28.5	tbc	tbc	Triplex	1	2	89	0.75	5.4	2	1000	2000	PureMED35
8102342165	MEDAIR-2140-7LET	1854	15	LE20-10	380 V 3~ 60Hz	SD	38	tbc	tbc	Triplex	1	2	87.5	0.75	5.4	2	1000	2000	PureMED35
8102369750	MEDAIR-3275-7LEQ	3324	15	LE20-10	380 V 3~ 60Hz	SD	38	tbc	tbc	Quadruplex	2	2	87.5	0.75	5.4	2	1500	3000	PureMED100
8102342167	MEDAIR-4005-7LEQ	3324	15	LE20-10	380 V 3~ 60Hz	SD	38	tbc	tbc	Quadruplex	2	2	87.5	0.75	5.4	2	2000	4000	PureMED100
8102342168	MEDAIR-4850-7LEP	4026	11	LE15-10	380 V 3~ 60Hz	SD	28.5	tbc	tbc	Pentaplex	3	2	89	0.75	5.4	2	2000	4000	PureMED100
8102342169	MEDAIR-6060-7LEP	5556	15	LE20-10	380 V 3~ 60Hz	SD	38	tbc	tbc	Pentaplex	3	2	87.5	0.75	5.4	2	3000	6000	PureMED100
8102369751	MEDAIR-6075-7LEP	5043	15	LE20-10	380 V 3~ 60Hz	SD	38	tbc	tbc	Pentaplex	3	2	87.5	0.75	5.4	2	3000	6000	PureMED145
8102369752	MEDAIR-6305-7LEH	5235	11	LE15-10	380 V 3~ 60Hz	SD	28.5	tbc	tbc	Hexaplex	4	2	89	0.75	5.4	2	3000	6000	PureMED145
8102369753	MEDAIR-8000-7LEH	7275	15	LE20-10	380 V 3~ 60Hz	SD	38	tbc	tbc	Hexaplex	4	2	87.5	0.75	5.4	3	2000	6000	PureMED145
8102369754	MEDAIR-8765-7LEH	7275	15	LE20-10	380 V 3~ 60Hz	SD	38	tbc	tbc	Hexaplex	4	2	87.5	0.75	5.4	3	3000	9000	PureMED145

- Data measured and stated in accordance with ISO1217 Ed.4, Annex C & Annex E and Pneurop/Cagi PN2CPTC2 with one compressor on standby and with an air intake at 1013 mbar, 20°C and 0% RH. Tropical thermostats may reduce the free air delivery marginally.
For 850kPa and 1100kPa, plant capacity is rated with a 50/50 split of surgical and medical air (within the design parameters stated in HTM 02-01).
- These are typical figures and may vary with the specific motor used. Consult the motor nameplate for exact figures.
- Two standby compressors should be provided unless the automatic backup manifold is of sufficient capacity to deliver the system design flow.
- Measured in free field conditions in accordance with the Pneurop/Cagi PN8TNC2.2 test code. Subject to a tolerance of +/- 3 dB
- Other models and layouts are available to suit particular site requirements. Contact your local representative for support.
- Design flow in terms of free air delivered after losses at working pressure with reserve compressor(s) on standby. Tolerance ±5%.

