

## Medical Air Plant

HTM 2022 • 50 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. Compressors shall be provided such that the specified volumetric flow is achieved with one compressor on standby. Medical Air Plants shall be supplied fully tested and comply with the United Kingdom Department of Health (DoH) publication HTM 2022, 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.

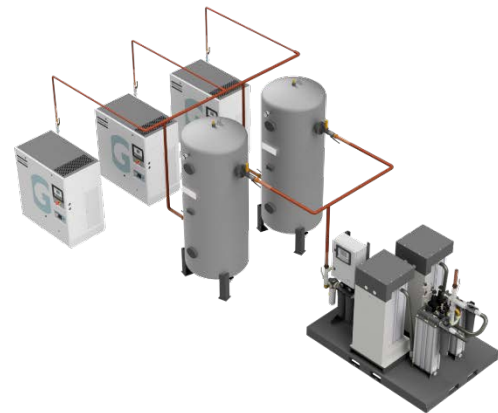
### Compressors

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 700kPa (7bar), 1000kPa (10 bar) or 1300 kPa (13 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 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/m<sup>3</sup>, 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 <sub>2</sub> O	67ppm v/v (-46°C atm. dp)
CO	5 ppm v/v
CO <sub>2</sub>	500 ppm v/v
SO <sub>2</sub>	1 ppm v/v
NO	2 ppm v/v
NO <sub>2</sub>	2 ppm v/v
Dry particulates	0ISO 8573-1 particle purity Class 2
Oil (droplet or mist)	0.1 mg/m <sup>3</sup>

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  $-60^{\circ}\text{C}$  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  $-46^{\circ}\text{C}$  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 14 bar. 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;
- 380V 60Hz versions are available on request.

## 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.



## 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).



## 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)	230	230	230	230	230
Supply frequency (Hz)	50	50	50	50	50
Central control supply – single phase (mm <sup>2</sup> /Amps)	1.5 (2)	1.5 (2)	1.5 (2)	1.5 (2)	1.5 (2)
Part number – Dryer @ 4 bar outlet	8102 3701 90	8102 3701 93	8102 3701 96	8102 3701 99	8102 3702 02
Part number – Dryer @ 7 bar outlet	8102 3701 91	8102 3701 94	8102 3701 97	8102 3702 00	8102 3702 03
Part number – Dryer @ 10 bar outlet	8102 3701 92	8102 3701 95	8102 3701 98	8102 3702 01	8102 3702 04

\*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) 7.5 bar variant *	900	1308	1842	2736	3384	3870	4362
Outlet flow (l/min) 10 bar variant *	702	1032	1560	2268	2814	3246	3960
Output flow (l/min) 13 bar variant *	504	852	1320	1938	2364	2850	3360
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)	400	400	400	400	400	400	400
Supply frequency (Hz)	50	50	50	50	50	50	50
Nominal motor rating (kW)	5	7	11	15	18	22	26
Full load current per compressor (A)	17	22	32	33.3	40.7	47.4	57
Starting current (A)	98.6	131	188	109.89	138.38	180.12	210.9
Cooling air flow per Compressor (m <sup>3</sup> /s)	0.8	0.8	1	0.5	0.7	1.1	1.1
Part number – 7.5 bar	8153 0344 86	8153 0344 94	8153 0345 02	8153 6162 82	8153 6163 16	8153 6163 40	8153 6163 73
Part number - 10 bar	8152 0341 89	8153 0342 05	8153 0342 21	8153 6162 90	8153 6163 24	8153 6163 57	8153 6163 81
Part number – 13 bar	8153 0341 97	8153 0342 13	8153 0342 39	8153 6163 08	8153 6163 32	8153 6163 65	8153 6163 99
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) 9.5 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)	610 x 630 x 1420	610 x 630 x 1420	610 x 630 x 1420	810 x 780 x 1590	810 x 780 x 1590	810 x 780 x 1590	810 x 780 x 1590	810 x 780 x 1590
Compressor weight (kg)	188	191	194	367	363	373	376	376
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)	50	50	50	50	50	50	50	50
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 <sup>3</sup> /s)	0.8	0.8	0.8	1.3	1.3	1.6	1.6	1.6
Part number	8102 3414 20	8102 3414 23	8102 3414 26	8102 3414 29	8102 3414 32	8102 3414 35	8102 3414 38	8102 3414 41

\*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)	tbc	tbc	tbc	tbc	tbc
Service connection (mm)	22	22	22	22	22
Noise level (dB[A])	79	80	81	89	87.5
Maximum ambient temperature (°C)	40	40	40	40	40
Supply voltage (v)	400	400	400	400	400
Supply frequency (Hz)	50	50	50	50	50
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 <sup>3</sup> /s)	0.16	0.5	0.5	0.75	0.75
Part number - 10 bar	8102 3399 25	8102 3399 29	8102 3399 14	8102 3399 17	8102 3399 21



## Standard Plant Range

### HTM 2022 4 Bar 50Hz Medical Air Plant Specifications – GA MED

Part Number	Model Ref.	Free Air Delivered (l/min) <sup>(1)</sup>	Nominal Motor Power per Compressor (kW)	Compressor Model (7.5 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) <sup>(2)</sup>	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dBA) <sup>(4)</sup>	Cooling air flow per compressor (m <sup>3</sup> /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (420kPa)
8102340700	MEDAIR-500-4GD	500	5	GA5 MED	400 V 3– 50 Hz	SD	17	98.6	32	Duplex	1	1	60	0.8	3.6	1	250	250	PureMED25
8102340701	MEDAIR-630-4GD	630	5	GA5 MED	400 V 3– 50 Hz	SD	17	98.6	32	Duplex	1	1	60	0.8	3.6	1	500	500	PureMED25
8102340702	MEDAIR-1000-4GD	1000	7	GA7 MED	400 V 3– 50 Hz	SD	22	131	32	Duplex	1	1	61	0.8	3.7	1	500	500	PureMED25
8102340704	MEDAIR-1230-4GD	1230	11	GA11 MED	400 V 3– 50 Hz	SD	32	188	40	Duplex	1	1	62	1	5.1	1	1000	1000	PureMED25
8102340705	MEDAIR-1465-4GD	1464	11	GA11 MED	400 V 3– 50 Hz	SD	32	188	40	Duplex	1	1	62	1	5.1	1	1000	1000	PureMED35
8102340706	MEDAIR-1720-4GD	1722	15	GA15 MED	400 V 3– 50 Hz	SD	33.3	110	50	Duplex	1	1	65	0.5	12.2	1	1000	1000	PureMED35
8102340707	MEDAIR-2000-4GD	2000	15	GA15 MED	400 V 3– 50 Hz	SD	33.3	110	50	Duplex	1	1	65	0.5	12.2	1	1000	1000	PureMED45
8102269761	MEDAIR-2045-4GT	2045	7	GA7 MED	400 V 3– 50 Hz	SD	22	131	32	Triplex	2	1	61	0.8	3.7	1	1500	1500	PureMED45
8102340708	MEDAIR-2165-4GD	2166	15	GA15 MED	400 V 3– 50 Hz	SD	33.3	110	50	Duplex	1	1	65	0.5	12.2	1	1500	1500	PureMED45
8102340709	MEDAIR-2430-4GD	2430	18	GA18 MED	400 V 3– 50 Hz	SD	40.7	302	63	Duplex	1	1	67	0.7	12.2	1	1500	1500	PureMED100
8102369762	MEDAIR-2545-4GT	2545	11	GA11 MED	400 V 3– 50 Hz	SD	32	188	40	Triplex	2	1	62	1	5.1	1	1500	1500	PureMED100
8102340710	MEDAIR-2730-4GD	2730	22	GA22 MED	400 V 3– 50 Hz	SD	47.4	383	80	Duplex	1	1	68	1.1	12.2	1	1500	1500	PureMED100
8102340711	MEDAIR-3000-4GD	3000	26	GA26 MED	400 V 3– 50 Hz	SD	57	211	80	Duplex	1	1	69	1.1	12.2	1	1500	1500	PureMED100
8102340712	MEDAIR-3220-4GD	3222	26	GA26 MED	400 V 3– 50 Hz	SD	57	383	80	Duplex	1	1	69	1.1	12.2	1	2000	2000	PureMED100
8102340713	MEDAIR-4000-4GT	4000	15	GA15 MED	400 V 3– 50 Hz	SD	33.3	252	50	Triplex	2	1	65	0.5	12.2	1	2000	2000	PureMED145
8102340714	MEDAIR-4330-4GT	4332	15	GA15 MED	400 V 3– 50 Hz	SD	33.3	252	50	Triplex	2	1	65	0.5	12.2	2	1500	3000	PureMED100
8102340715	MEDAIR-4860-4GT	4860	18	GA18 MED	400 V 3– 50 Hz	SD	40.7	302	63	Triplex	2	1	67	0.7	12.2	2	1500	3000	PureMED100
8102340716	MEDAIR-5115-4GT	5115	18	GA18 MED	400 V 3– 50 Hz	SD	40.7	302	63	Triplex	2	1	67	0.7	12.2	2	1500	3000	PureMED145
8102340717	MEDAIR-6000-4GT	6000	22	GA22 MED	400 V 3– 50 Hz	SD	47.4	383	80	Triplex	2	1	68	1.1	12.2	2	1500	3000	PureMED145
8102340718	MEDAIR-6090-4GT	6087	22	GA22 MED	400 V 3– 50 Hz	SD	47.4	383	80	Triplex	2	1	68	1.1	12.2	2	2000	4000	PureMED145
8102340719	MEDAIR-7045-4GT	7047	26	GA26 MED	400 V 3– 50 Hz	SD	57	211	80	Triplex	2	1	69	1.1	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 the reserve compressor(s) on standby. Tolerance ±5%.





## HTM 2022 7 Bar 50Hz Combined Medical and Surgical Air Plant Specifications – GA MED

Part Number	Model Ref.	Free Air Delivered (l/min) <sup>(1)</sup>	Nominal Motor Power per Compressor (kW)	Compressor Model (10 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) <sup>(2)</sup>	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) <sup>(4)</sup>	Cooling air flow per compressor (m <sup>3</sup> /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (700kPa)
8102340720	MEDAIR-430-7GD	432	5	GA5 MED	400 V 3~ 50 Hz	SD	17	98.6	32	Duplex	1	1	60	0.8	3.6	1	250	250	PureMED25
8102340721	MEDAIR-760-7GD	762	7	GA7 MED	400 V 3~ 50 Hz	SD	22	131	32	Duplex	1	1	61	0.8	3.7	1	500	500	PureMED25
8102340722	MEDAIR-1000-7GD	1000	11	GA11 MED	400 V 3~ 50 Hz	SD	32	188	40	Duplex	1	1	62	1	5.1	1	500	500	PureMED25
8102340723	MEDAIR-1290-7GD	1290	11	GA11 MED	400 V 3~ 50 Hz	SD	32	188	40	Duplex	1	1	62	1	5.1	1	1000	1000	PureMED25
8102340724	MEDAIR-1530-7GD	1530	15	GA15 MED	400 V 3~ 50 Hz	SD	33.3	110	50	Duplex	1	1	65	0.5	12.2	1	1000	1000	PureMED25
8102340725	MEDAIR-2000-7GD	2000	18	GA18 MED	400 V 3~ 50 Hz	SD	40.7	138	63	Duplex	1	1	67	0.7	12.2	1	1000	1000	PureMED35
8102340726	MEDAIR-2140-7GD	2142	18	GA18 MED	400 V 3~ 50 Hz	SD	40.7	138	63	Duplex	1	1	67	0.7	12.2	1	1500	1500	PureMED35
8102340727	MEDAIR-2245-7GD	2244	18	GA18 MED	400 V 3~ 50 Hz	SD	40.7	138	63	Duplex	1	1	67	0.7	12.2	1	1500	1500	PureMED45
8102340729	MEDAIR-2675-7GD	2676	22	GA22 MED	400 V 3~ 50 Hz	SD	47.4	180	80	Duplex	1	1	68	1.1	12.2	1	1500	1500	PureMED45
8102340732	MEDAIR-3395-7GT	3396	15	GA15 MED	400 V 3~ 50 Hz	SD	33.3	110	50	Triplex	2	1	65	0.5	12.2	1	2000	2000	PureMED100
8102340733	MEDAIR-4000-7GT	4000	18	GA18 MED	400 V 3~ 50 Hz	SD	40.7	138	63	Triplex	2	1	67	0.7	12.2	1	2000	2000	PureMED100
8102340734	MEDAIR-4490-7GT	4488	18	GA18 MED	400 V 3~ 50 Hz	SD	40.7	138	63	Triplex	2	1	67	0.7	12.2	2	1500	3000	PureMED100
8102340735	MEDAIR-5350-7GT	5352	22	GA22 MED	400 V 3~ 50 Hz	SD	47.4	180	80	Triplex	2	1	68	1.1	12.2	2	1500	3000	PureMED100
8102340736	MEDAIR-6000-7GT	6000	26	GA26 MED	400 V 3~ 50 Hz	SD	57	211	80	Triplex	2	1	69	1.1	12.2	2	1500	3000	PureMED100
8102340738	MEDAIR-6265-7GT	6267	26	GA26 MED	400 V 3~ 50 Hz	SD	57	211	80	Triplex	2	1	69	1.1	12.2	2	2000	4000	PureMED145
8102340739	MEDAIR-6790-7GQ	6789	18	GA18 MED	400 V 3~ 50 Hz	SD	43	302	63	Quadruplex	3	1	67	0.7	12.2	2	2000	4000	PureMED145
8102340740	MEDAIR-8000-7GQ	8000	22	GA22 MED	400 V 3~ 50 Hz	SD	47.4	180	80	Quadruplex	3	1	68	1.1	12.2	2	2000	4000	PureMED145
8102340742	MEDAIR-8785-7GQ	8787	26	GA26 MED	400 V 3~ 50 Hz	SD	57	211	80	Quadruplex	3	1	69	1.1	12.2	3	1500	4500	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 700kPa and 1000kPa, plant capacity is rated with a 50/50 split of surgical and medical air (within the design parameters stated in HTM 2022).
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 the reserve compressor(s) on standby. Tolerance ±5%.



## HTM 2022 10 Bar 50Hz Combined Medical and Surgical Air Plant Specifications – GA MED

Part Number	Model Ref.	Free Air Delivered (l/min) <sup>(1)</sup>	Nominal Motor Power per Compressor (kW)	Compressor Model (13 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) <sup>(2)</sup>	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) <sup>(4)</sup>	Cooling air flow per compressor (m <sup>3</sup> /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169-1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (1100kPa)
8102340750	MEDAIR-500-10GD	500	7	GA7 MED	400 V 3~ 50 Hz	SD	22	131	32	Duplex	1	1	61	0.8	3.7	1	250	250	PureMED25
8102340751	MEDAIR-580-10GD	582	7	GA7 MED	400 V 3~ 50 Hz	SD	22	131	32	Duplex	1	1	61	0.8	3.7	1	500	500	PureMED25
8102340752	MEDAIR-1000-10GD	1000	11	GA11 MED	400 V 3~ 50 Hz	SD	32	188	40	Duplex	1	1	62	1	5.1	1	500	500	PureMED25
8102340754	MEDAIR-1670-10GD	1668	15	GA15 MED	400 V 3~ 50 Hz	SD	33.3	110	50	Duplex	1	1	65	0.5	12.2	1	1000	1000	PureMED25
8102340755	MEDAIR-1755-10GD	1755	18	GA18 MED	400 V 3~ 50 Hz	SD	40.7	138	63	Duplex	1	1	67	0.7	12.2	1	1000	1000	PureMED25
8102340756	MEDAIR-1985-10GD	1986	18	GA18 MED	400 V 3~ 50 Hz	SD	40.7	138	63	Duplex	1	1	67	0.7	12.2	1	1000	1000	PureMED35
8102340757	MEDAIR-2455-10GD	2457	22	GA22 MED	400 V 3~ 50 Hz	SD	47.4	180	80	Duplex	1	1	68	1.1	12.2	1	1500	1500	PureMED35
8102340758	MEDAIR-2790-10GD	2790	26	GA26 MED	400 V 3~ 50 Hz	SD	57	211	80	Duplex	1	1	69	1.1	12.2	1	1500	1500	PureMED45
8102340761	MEDAIR-3590-10GT	3588	18	GA18 MED	400 V 3~ 50 Hz	SD	40.7	138	63	Triplex	2	1	67	0.7	12.2	1	2000	2000	PureMED100
8102340762	MEDAIR-4000-10GT	4000	22	GA22MED	400 V 3~ 50 Hz	SD	47.4	180	80	Triplex	2	1	68	1.1	12.2	1	2000	2000	PureMED100
8102340763	MEDAIR-4560-10GT	4560	22	GA22MED	400 V 3~ 50 Hz	SD	47.4	180	80	Triplex	2	1	68	1.1	12.2	2	1500	3000	PureMED100
8102340764	MEDAIR-5580-10GT	5580	26	GA26 MED	400 V 3~ 50 Hz	SD	57	211	80	Triplex	2	1	69	1.1	12.2	2	1500	3000	PureMED100
8102340765	MEDAIR-5950-10GQ	5952	18	GA18 MED	400 V 3~ 50 Hz	SD	40.7	138	63	Quadruplex	3	1	67	0.7	12.2	2	1500	3000	PureMED100
8102340766	MEDAIR-6000-10GQ	6000	22	GA22MED	400 V 3~ 50 Hz	SD	47.4	180	80	Quadruplex	3	1	68	1.1	12.2	2	1500	3000	PureMED100
8102340767	MEDAIR-6960-10GQ	6960	22	GA22MED	400 V 3~ 50 Hz	SD	47.4	180	80	Quadruplex	3	1	68	1.1	12.2	2	2000	4000	PureMED100
8102340768	MEDAIR-8000-10GQ	8000	26	GA26 MED	400 V 3~ 50 Hz	SD	57	211	80	Quadruplex	3	1	69	1.1	12.2	2	2000	4000	PureMED145
8102340769	MEDAIR-8425-10GQ	8427	26	GA26 MED	400 V 3~ 50 Hz	SD	57	211	80	Quadruplex	3	1	69	1.1	12.2	3	1500	4500	PureMED145
8102340770	MEDAIR-9000-10GP	9000	22	GA22 MED	400 V 3~ 50 Hz	SD	47.4	180	80	Pentaplex	4	1	68	1.1	12.2	3	1500	4500	PureMED145
8102340771	MEDAIR-9745-10GP	9747	22	GA22 MED	400 V 3~ 50 Hz	SD	47.4	180	80	Pentaplex	4	1	68	1.1	12.2	3	2000	4000	PureMED145
8102340772	MEDAIR-10090-10GP	10092	26	GA26 MED	400 V 3~ 50 Hz	SD	57	211	80	Pentaplex	4	1	69	1.1	12.2	3	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. For 700kPa and 1000kPa, plant capacity is rated with a 50/50 split of surgical and medical air (within the design parameters stated in HTM 2022).
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 the reserve compressor(s) on standby. Tolerance ±5%.



## HTM 2022 4 Bar 50Hz Medical Air Plant Specifications – GA VSD+ MED

Part Number	Model Ref.	Free Air Delivered (l/min) <sup>(1)</sup>	Nominal Motor Power per Compressor (kW)	Compressor Model (7.5 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) <sup>(2)</sup>	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) <sup>(4)</sup>	Cooling air flow per compressor (m <sup>3</sup> /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (420kPa)
8102342280	MEDAIR-1000-4GDV	1000	2.9 – 7.9	GA7 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	62	0.8	tbc	1	500	500	PureMED25
8102369782	MEDAIR-1030-4GDV	1032	2.9 – 7.9	GA7 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	62	0.8	tbc	1	1000	1000	PureMED25
8102342281	MEDAIR-1230-4GDV	1230	2.9 – 12.1	GA11 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	63	0.8	tbc	1	1000	1000	PureMED25
8102342282	MEDAIR-1570-4GDV	1572	2.9 – 12.1	GA11 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	63	0.8	tbc	1	1000	1000	PureMED35
8102342283	MEDAIR-1720-4GDV	1722	3 – 17.1	GA15 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	64	0.8	tbc	1	1000	1000	PureMED35
8102342284	MEDAIR-1940-4GDV	1938	3 – 17.1	GA15 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	64	0.8	tbc	1	1000	1000	PureMED45
8102342286	MEDAIR-2610-4GDV	2610	5 – 20.1	GA18 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	1	1500	1500	PureMED100
8102342287	MEDAIR-3000-4GDV	3000	5.1 – 24	GA22 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	1	1500	1500	PureMED100
8102342288	MEDAIR-3365-4GDV	3366	5.1 – 24	GA22 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	1	2000	2000	PureMED100
8102342289	MEDAIR-4000-4GDV	4000	5 – 29	GA26 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	1	2000	2000	PureMED100
8102342290	MEDAIR-4705-4GDV	4704	5 – 34.3	GA30 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	1	3000	3000	PureMED100
8102342291	MEDAIR-4705-4GDV	4704	5 – 34.3	GA30 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	2	1500	3000	PureMED100
8102342292	MEDAIR-4860-4GDV	4860	5.4 – 41.2	GA37 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	1	3000	3000	PureMED100
8102342293	MEDAIR-4860-4GDV	4860	5.4 – 41.2	GA37 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	2	1500	3000	PureMED100
8102342294	MEDAIR-5245-4GDV	5247	5.4 – 41.2	GA37 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	1	3000	3000	PureMED145
8102342295	MEDAIR-5245-4GDV	5247	5.4 – 41.2	GA37 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	2	1500	3000	PureMED145
8102342296	MEDAIR-5845-4GTV	5847	5 – 20.1	GA18 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.3	tbc	1	3000	3000	PureMED145
8102342297	MEDAIR-5845-4GTV	5847	5 – 20.1	GA18 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.3	tbc	2	1500	3000	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 the reserve compressor(s) on standby. Tolerance ±5%.



## HTM 2022 7 Bar 50Hz Combined Medical and Surgical Air Plant Specifications – GA VSD+ MED

Part Number	Model Ref.	Free Air Delivered (l/min) <sup>(1)</sup>	Nominal Motor Power per Compressor (kW)	Compressor Model (10 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) <sup>(2)</sup>	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) <sup>(4)</sup>	Cooling air flow per compressor (m <sup>3</sup> /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (820kPa)
8102342300	MEDAIR-810-7GDV	810	2.9 - 7.9	GA7 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	62	0.8	tbc	2	250	250	PureMED25
8102342301	MEDAIR-1360-7-GDV	1362	2.9 – 12.1	GA11 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	63	0.8	tbc	2	500	1000	PureMED25
8102342302	MEDAIR-1530-7GDV	1530	3 – 17.1	GA15 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	64	0.8	tbc	2	500	1000	PureMED25
8102342303	MEDAIR-1750-7GDV	1752	3 - 17.1	GA15 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	64	0.8	tbc	2	500	1000	PureMED35
8102342304	MEDAIR-2000-7GDV	2000	5 – 20.1	GA18 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	2	500	1000	PureMED35
8102342305	MEDAIR-2140-7GDV	2142	5 - 20.1	GA18 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	2	1000	2000	PureMED35
8102342306	MEDAIR-2645-7GDV	2646	5 - 20.1	GA18 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	2	1000	2000	PureMED45
8102342308	MEDAIR-3565-7GDV	3564	5 - 29	GA26 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.6	tbc	2	1000	2000	PureMED100
8102342309	MEDAIR-3995-7GDV	3996	5 – 34.3	GA30 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.6	tbc	2	1000	2000	PureMED100
8102342310	MEDAIR-5000-7GDV	4998	5.4 – 41.2	GA37 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	1	1	67	1.6	tbc	2	1500	3000	PureMED100
8102342311	MEDAIR-5290-7GTV	5292	5 – 20.1	GA18 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.3	tbc	2	1500	3000	PureMED100
8102342312	MEDAIR-6000-7GTV	6060	5.1 – 24	GA22 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.3	tbc	2	2000	4000	PureMED100
8102342313	MEDAIR-6170-7GTV	6171	5.1 – 24	GA22 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.3	tbc	2	2000	4000	PureMED145
8102342314	MEDAIR-7755-7GTV	7755	5 – 29	GA26 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	2	2000	4000	PureMED145
8102342315	MEDAIR-8000-7GTV	8000	5 – 34.3	GA30 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	2	2000	4000	PureMED145
8102342316	MEDAIR-8620-7GTV	8619	5 – 34.3	GA30 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	2	3000	6000	PureMED145
8102342317	MEDAIR-8620-7GTV	8619	5 – 34.3	GA30 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	3	1500	4500	PureMED145
8102342318	MEDAIR-8787-7GTV	8787	5.4 – 41.2	GA37 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	2	3000	6000	PureMED145
8102342319	MEDAIR-8787-7GTV	8787	5.4 – 41.2	GA37 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	3	1500	4500	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 the reserve compressor(s) on standby. Tolerance ±5%.



## HTM 2022 10 Bar 50Hz Combined Medical and Surgical Air Plant Specifications – GA VSD+ MED

Part Number	Model Ref.	Free Air Delivered (l/min) <sup>(1)</sup>	Nominal Motor Power per Compressor (kW)	Compressor Model (13 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) <sup>(2)</sup>	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) <sup>(4)</sup>	Cooling air flow per compressor (m <sup>3</sup> /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (1100kPa)
8102342320	MEDAIR-580-10GDV	582	2.9 - 7.9	GA7 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	62	0.8	tbc	2	250	250	PureMED25
8102342321	MEDAIR-1140-10GDV	1140	2.9 – 12.1	GA11 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	63	0.8	tbc	2	500	1000	PureMED25
8102342322	MEDAIR-1405-10GDV	1404	3 – 17.1	GA15 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	64	0.8	tbc	2	500	1000	PureMED25
8102342323	MEDAIR-1755-10GDV	1755	5 – 20.1	GA18 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	2	500	1000	PureMED25
8102342324	MEDAIR-2000-10GDV	2000	5 – 20.1	GA18 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	2	500	1000	PureMED35
8102342325	MEDAIR-2230-10GDV	2232	5 - 20.1	GA18 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	2	1000	2000	PureMED35
8102342326	MEDAIR-2455-10GDV	2457	5.1 – 24	GA22 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	2	1000	2000	PureMED35
8102342327	MEDAIR-2675-10GDV	2676	5.1 – 24	GA22 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.3	tbc	2	1000	2000	PureMED45
8102342330	MEDAIR-4000-10GDV	4000	5.4 – 41.2	GA37 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Duplex	1	1	67	1.6	tbc	2	1000	2000	PureMED100
8102342331	MEDAIR-4080-10GTV	4080	5 – 20.1	GA18 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.3	tbc	2	1500	3000	PureMED100
8102342332	MEDAIR-5350-10GTV	5352	5.1 – 24	GA22 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.3	tbc	2	1500	3000	PureMED100
8102342333	MEDAIR-6000-10GTV	6000	5 - 29	GA26 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	2	1500	3000	PureMED100
8102342334	MEDAIR-6600-10GTV	6600	5 – 29	GA26 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	2	2000	4000	PureMED100
8102342335	MEDAIR-6960-10GTV	6960	5 – 34.3	GA30 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	2	2000	4000	PureMED100
8102342336	MEDAIR-8000-10GTV	8000	5.4 – 41.2	GA37 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	2	2000	6000	PureMED145
8102342337	MEDAIR-8750-10GTV	8751	5.4 – 41.2	GA37 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	2	3000	6000	PureMED145
8102342338	MEDAIR-8750-10GTV	8751	5.4 – 41.2	GA37 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Triplex	2	1	67	1.6	tbc	3	1500	4500	PureMED145
8102342339	MEDAIR-9000-10GQV	9000	5 – 29	GA26 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Quadruplex	3	1	67	1.6	tbc	3	1500	4500	PureMED145
8102342340	MEDAIR-9955-10GQV	9957	5 – 29	GA26 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Quadruplex	3	1	67	1.6	tbc	2	3000	6000	PureMED145
8102342341	MEDAIR-9955-10GQV	9957	5 – 29	GA26 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Quadruplex	3	1	67	1.6	tbc	3	2000	6000	PureMED145
8102342342	MEDAIR-10090-10GQV	10092	5 – 34.3	GA30 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Quadruplex	3	1	67	1.6	tbc	2	3000	6000	PureMED145
8102342343	MEDAIR-10090-10GQV	10092	5 – 34.3	GA30 VSD+	400 V 3~ 50Hz	DOL	tbc	n/a	tbc	Quadruplex	3	1	67	1.6	tbc	3	2000	6000	PureMED145



## HTM 2022 7 Bar 50Hz Combined Medical and Surgical Air Plant Specifications – LE MED

Part Number	Model Ref.	Free Air Delivered (l/min) <sup>(1)</sup>	Nominal Motor Power per Compressor (kW)	Compressor Model (10 Bar)	Electrical Supply	Starting Method	Full Load Current per Compressor (A) <sup>(2)</sup>	Approx. Starting Current (A)	Motor Rated Supply per Compressor (A)	Compressor Configuration	Duty Compressors	Standby Compressors	Sound Pressure Level/Compressor dB(A) <sup>(4)</sup>	Cooling air flow per compressor (m <sup>3</sup> /s)	Compressor Oil Capacity (litres)	Air Receiver(s) to BS 5169:1992	Receiver Volume (litres)	Air Receiver Total Capacity (litres)	Dryer Model (420kPa)
8102342120	MEDAIR-235-7LED	234	4	LE5-10	400 V 3~ 50Hz	SD	9.5	tbc	tbc	Duplex	1	1	79	0.16	0.8	1	250	250	PureMED25
8102342121	MEDAIR-435-7LED	432	5.5	LE7-10	400 V 3~ 50Hz	SD	13.3	tbc	tbc	Duplex	1	1	80	0.5	1.4	1	250	250	PureMED25
8102342122	MEDAIR-670-7LED	672	7.5	LE10-10	400 V 3~ 50Hz	SD	19	tbc	tbc	Duplex	1	1	81	0.5	1.4	1	500	500	PureMED25
8102342123	MEDAIR-1000-7LED	1000	11	LE15-10	400 V 3~ 50Hz	SD	28.5	tbc	tbc	Duplex	1	1	89	0.75	5.4	1	500	500	PureMED25
8102342124	MEDAIR-1165-7LED	1164	15	LE15-10	400 V 3~ 50Hz	SD	28.5	tbc	tbc	Duplex	1	1	89	0.75	5.4	1	1000	1000	PureMED25
8102342125	MEDAIR-1530-7LET	1530	7.5	LE10-10	400 V 3~ 50Hz	SD	19	tbc	tbc	Triplex	2	1	81	0.5	1.4	1	1000	1000	PureMED25
8102342126	MEDAIR-1530-7LED	1530	15	LE20-10	400 V 3~ 50Hz	SD	38	tbc	tbc	Duplex	1	1	87.5	0.75	5.4	1	1000	1000	PureMED25
8102342127	MEDAIR-2000-7LET	2000	11	LE15-10	400 V 3~ 50Hz	SD	28.5	tbc	tbc	Triplex	2	1	89	0.75	5.4	1	1000	1000	PureMED35
8102342128	MEDAIR-2140-7LET	2142	11	LE15-10	400 V 3~ 50Hz	SD	28.5	tbc	tbc	Triplex	2	1	89	0.75	5.4	1	1500	1500	PureMED35
8102342129	MEDAIR-2300-7LET	2298	11	LE15-10	400 V 3~ 50Hz	SD	28.5	tbc	tbc	Triplex	2	1	89	0.75	5.4	1	1500	1500	PureMED45
8102342131	MEDAIR-3160-7LEQ	3162	15	LE15-10	400 V 3~ 50Hz	SD	28.5	tbc	tbc	Quadruplex	3	1	89	0.75	5.4	1	2000	1500	PureMED100
8102342132	MEDAIR-4000-7LEQ	4000	15	LE20-10	400 V 3~ 50Hz	SD	38	tbc	tbc	Quadruplex	3	1	87.5	0.75	5.4	1	2000	2000	PureMED100
8102342133	MEDAIR-4655-7LEQ	4566	11	LE20-10	400 V 3~ 50Hz	SD	38	tbc	tbc	Quadruplex	3	1	87.5	0.75	5.4	2	1500	3000	PureMED100
8102342134	MEDAIR-6000-7LEP	6000	11	LE20-10	400 V 3~ 50Hz	SD	38	tbc	tbc	Pentaplex	4	1	87.5	0.75	5.4	2	1500	3000	PureMED100
8102342135	MEDAIR-7860-7LEH	7857	15	LE20-10	400 V 3~ 50Hz	SD	38	tbc	tbc	Hexaplex	5	1	87.5	0.75	5.4	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. For 700kPa and 1000kPa, plant capacity is rated with a 50/50 split of surgical and medical air (within the design parameters stated in HTM 2022).
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%.

