

**Medical Air System**  
**mAIR Medical Air, cAIR Combined Air & sAIR Surgical Air Systems**  
**EN ISO 7396-1/HTM 02-01 and HTM2022 EurPh**  
**400 V 60 Hz, 4 Bar, 7 Bar, 8 Bar, & 10 Bar Outlet**  
**Oil Injected Screw Compressors**

## Air Plant System

The Medical Air System is a modular base-mounted design consisting of oil-injected rotary screw compressor modules with fixed or variable speed drive, a duplex air purification module with central controller, and air receiver modules. The Air System shall conform to EN ISO 7396-1 and NHS Health Technical Memorandum HTM02-01 or HTM2022. Medical quality air to the European Pharmacopoeia monograph shall be delivered at pressures of 400 kPa (4 bar), 700kPa (7 bar) or 1000 kPa (10 bar) gauge for supply of the hospital medical or surgical air systems.

Medical Air Systems shall be duplexed such that any single functional component failure will not affect the integrity of the medical compressed air supply.

Surgical Air Systems shall have a duplex air purification module and a simplex compressor. Additional compressors shall be available to duplex the compressors, such that any single compressor failure will not affect the integrity of the air supply.

The Medical Air Systems are CE-marked with approval from a notified body (more detailed information available on request).

## Sources of Supply

### HTM02-01/EN ISO 7396-1

The Medical Air Plant System will produce the primary supply with two compressors on standby (unless an automatic manifold is used as secondary (HTM02-01) or third (ISO7396-1) supply). For duplex plant, the secondary (HTM02-01) or third (ISO7396-1) supply shall be an automatic manifold. For triplex plant, each compressor can supply the total hospital flow. If more than three compressors are installed, the total hospital flow will be split over multiple compressors.

### HTM2022

The Medical Air Plant System will produce the primary supply with one compressor on standby. For duplex plant, each compressor can supply the total hospital flow. If more than two compressors are installed, the total hospital flow will be split over multiple compressors. The back-up compressor will form the secondary supply. A third supply shall be from an automatic manifold capable of supplying the average hospital demand for 4 hours.

## Compressor Modules

### Fixed Speed Compressors

Compressors shall be Atlas Copco GA MED single-stage oil injected rotary screw compressors suitable for both continuous and frequent start/stop operation at a nominal outlet pressure of 750 kPa (7.5 bar), 1000 kPa (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 EFF1 (CEMEP) rated, IP55 class F electric motors shall be used and incorporate maintenance-free bearings. Motors with lower efficiency ratings are not acceptable. The compressor shall be fitted with a high-definition colour display controller. The compressor shall have the following features as required by HTM02-01/HTM2022:

- Ammeter
- Main switch
- Temperature sensor downstream the aftercooler
- Failed-to-go-on-load feedback pressure switch
- Automatic restart after voltage failure

### Variable Speed Compressors

Alternatively, compressors shall be Atlas Copco GA VSDs MED single-stage oil injected rotary screw compressors fitted with Variable Speed Drive. By including an AC-DC converter, along with associated control hardware and software it will enable the compressor to continuously match its running speed with the flow demand required by the hospital. By using such technology, start currents will be reduced, machine life will be prolonged and energy savings of up to 60% shall be achievable. The compressor shall operate from 400 - 1300kPa (4 - 10 or 13 bar) gauge.

The compressor shall be fitted with an oil-cooled Ferrite-Assisted Synchronous Reluctance motor according to the IE5 standard without rare earth materials and IP66 pressure-tight ingress protection. The motor bearings shall be oil-cooled and maintenance free. The motor shall be directly connected to the screw element without gearbox nor belt. The motor and screw element shall be fitted in a vertical position to limit the footprint of the compressor. The compressor shall be fitted with an inlet valve to avoid depressurization losses during stop (no unloading). A multistage oil separator capable of achieving 2ppm oil carry-over shall be fitted to minimise contamination and maintenance. The noise level of the compressor shall be maximum 63dB(A). The compressor shall be fitted with a touch-screen controller and electronic no-loss water drain with integrated manual drain for efficient removal of condensate without loss of compressed air. Compressors shall be supplied with a block and fin style cooler with a dedicated quiet running variable speed fan that meets ERP2020 to maximise cooling and efficiency.

Full VSD air plant shall incorporate VSD controllers on all compressors, cycling the lead compressor to ensure even wear as per HTM02-01 requirements.

The compressor shall have the following features as required by HTM:

- Ammeter
- Main switch
- Temperature sensor downstream the aftercooler
- Failed-to-go-on-load feedback pressure switch
- Automatic restart after voltage failure

## Air Purification Module

### Dryer and Filter System

The duplexed air purification module shall incorporate high efficiency water separators, oil coalescing filters, heatless regenerative desiccant dryers, activated carbon filters with optional hopcalite catalyst, bacterial filters and pressure regulators. The performance of the filters shall be according to below specifications:

- Oil coalescing two-in-one high efficiency filter: mass efficiency of 99,991 %, 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 & ISO 12500-2
- Bacterial filter: particle count efficiency of 99,98 % at MPPS=0.06µm, tested according to ISO 12500-3

The dryer shall have a purge valve with multiple orifice sizes to adjust the purge rate, eliminating the need for additional purge plugs. Optional electrical contacts may be installed on the filters to provide warning alarms on the dryer controller in the event of high pressure drop (ie blockage) and shall also include connections for BMS. Contaminants in the delivered air downstream of the bacterial filters shall be maintained at levels below those shown in the table below.

Air Plant Systems with variable speed drive compressors shall be fitted with a hopcalite filter and electrical contacts on the filters as standard.

| Contaminant           | Threshold                                           |
|-----------------------|-----------------------------------------------------|
| H <sub>2</sub> O      | 67 ppm v/v                                          |
| Dry particulates      | Free from visible particulates in a 75 litre sample |
| Oil (droplet or mist) | 0.1 mg/m <sup>3</sup>                               |
| 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                                           |

### Control System

The cubicle of the medical air purifier shall contain both the central controller as well as the individual dryer controllers.

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 5.7" high-definition colour display with clear pictograms and LED indicators, providing easy access to system operational information.

The central control system shall employ automatic rotation of the lead compressor & dryer to maximise life and ensure even wear. The compressors & dryers shall be fitted with their own individual

controller. These controllers shall be fitted with the necessary logic to act as a back-up in case of a central controller malfunction, ensuring continued operation.

### 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.

### Dew Point Monitoring

The dryer shall incorporate a dew point hygrometer with an accuracy of ±3°C in the range -20 to -100°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 set point. The plant control unit shall display the dewpoint of the delivered air to enable monitoring of the air quality by the hospitals estates department. Voltage-free contacts shall be included to enable the dew point alarm signal to be connected to a central medical gas alarm system and/or building management system (BMS). To enable periodic calibration of the dew point sensor element, the hygrometer shall be remotely connected downstream of the dryer via a micro-bore tube. It is not acceptable to install the sensor directly into the medical air supply pipeline.

### Receiver Assembly

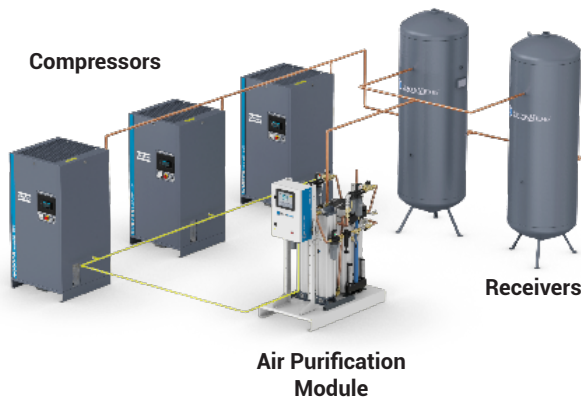
Air receivers shall comply with PED 2014/68/EU, supplied with relevant test certificates. Each air receiver shall be of steel construction with powder coating for protection (CE standard) or shall be hot dip galvanised inside and out (MOM standard) and fitted with a zero loss electronic drain valve. Float type drain valves are not acceptable. The receiver assembly shall be fitted with a pressure safety valve capable of passing the maximum flow output of the compressor at 10% receiver overpressure. The receiver shall be further protected by a safety pressure relief valve and include a pressure gauge.

### Optional Items

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

- MOM standard receivers with 3rd party certification, hot dip galvanised steel inside and out
- VSD compressors (harmonics filter standard included for installation close to highly sensitive equipment)
- Synthetic oil for increased compressor life
- Tropical thermostatic sensors for countries with high humidity
- Phase sequence relays that prevent unintentional reverse operation of the compressors (standard for GA15-26 MED & GA7-37 VSD MED)
- EWD zero loss electronic water drains for the dMED dryer including secure mounting to the dryer base
- QDT saturation indicators to give clear visual indication of oil carry over to the activated carbon tower (only up to 10bar)
- CO and CO<sub>2</sub> monitors including full integration into the ES-MED central controller giving alarm warnings when unacceptable CO and CO<sub>2</sub> levels are present

## Typical Layout



### Note:

Interconnecting pipework (brown illustration) 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.

## Condensate Management Options

If the oil in compressor condensate is not removed before it enters the sewage system, it can cause significant environmental damage. Therefore, condensate treatment is not only the responsible thing to do; in most countries it's the law. Thanks to its multi-stage filtration, Atlas Copco's OSC removes oil from your compressor's condensate with unmatched precision to achieve an oil content of 10 ppm at outlet. In addition, the OSC offers zero-hassle maintenance thanks to its easily removable filter bags and cartridges.

- Multiple filtration media
- Activated carbon for simple emulsions
- Organo Clay for stronger emulsions\*
- Easy to change filter media (when required)



| Description                      | Type             | Part number |
|----------------------------------|------------------|-------------|
| Oil Water Separator, 900 l/min   | Activated carbon | 8102046581  |
|                                  | Organo clay      | 8102046607  |
| Oil Water Separator, 1860 l/min  | Activated carbon | 8102046623  |
|                                  | Organo clay      | 8102046649  |
| Oil Water Separator, 3780 l/min  | Activated carbon | 8102046664  |
|                                  | Organo clay      | 8102046730  |
| Oil Water Separator, 6360 l/min  | Activated carbon | 8102046672  |
|                                  | Organo clay      | 8102046748  |
| Oil Water Separator, 12780 l/min | Activated carbon | 8102046680  |
|                                  | Organo clay      | 8102046755  |
| Oil Water Separator, 22500 l/min | Activated carbon | 8102046698  |
|                                  | Organo clay      | 8102046763  |

\* Stronger emulsions: RS Xtend, RS foodgrade, Oil mixtures.

## Unique Selling Proposition

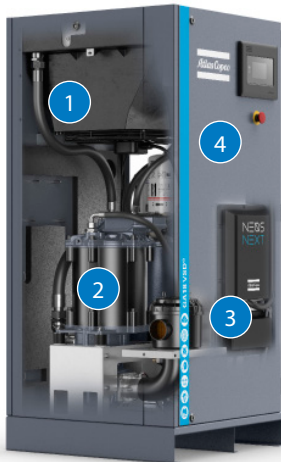
### GA MED Compressor

- 1 **Robust element and motor:** State-of-the-art screw element in combination with an IE3 efficiency motor, improved bearings and seal arrangement results into minimized energy costs.
- 2 **High tech oil vessel:** Extremely low oil carry-over thanks to vertical design of the oil vessel. Minimized oil vessel size further reduces air losses during unloading.
- 3 **Advanced monitoring:** High definition colour display with clear service and warning indications. Easy remote monitoring through a simple Ethernet connection thanks to the built-in webserver.
- 4 **Fitted for Medical applications:** All HTM compressor requirements like ammeter, aftercooler temperature sensor, failed-to-go-on-load switch, etc. are factory-fitted. Furthermore, specific software safety features are added.



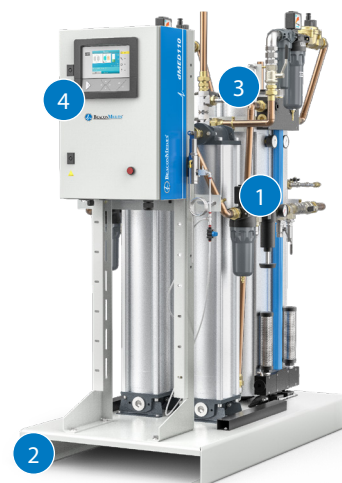
### GA VSD MED Compressor

- 1 **Smart and Compact Compressor:** Innovative vertical arrangement minimize footprint, reducing valuable floor space required. The Smart Thermostatic Control Valve results in the optimal oil temperature to avoid condensation and maximize compression efficiency.
- 2 **State-of-the-Art Compressor Motor:** Ferrite-Assisted Synchronous Reluctance motor according to the IE5 standard without rare earth materials. Fully enclosed IP66 direct drive train. One oil circuit for motor, element, and bearings, eliminates the need for cooling air.
- 3 **Variable Speed Drive:** Each compressor contains a Neos Next variable frequency drive inverter which combines the functionality of an entire electrical cubicle in one unit.
- 4 **Fitted for Medical applications:** All HTM compressor requirements like amp meter, aftercooler temperature sensor, failed-to-go-on-load switch, etc. are factory-fitted. Furthermore, specific software safety features are added.



### dMED Purification Module

- 1 **Complete Air Purification Package:** Everything to clean the air is pre-piped and wired in a fully duplexed package, with a six-step purification process that provides European Pharmacopeia compliant air (when hopcalite is fitted).
- 2 **Compact Design:** With the unique design of the extruded aluminum desiccant dryer towers, the air purification package components are compactly configured to minimize footprint without compromising service access.
- 3 **Ease of Service:** The top loading desiccant cartridges and externally fitted components make servicing the air purification package quick with easy access for all service parts.
- 4 **Advanced Medical Controls:** The advanced master controller monitors and controls both the compressors and the air purification module. Filled with redundancy and medical safety features, the controller operates the system efficiently with a very tight pressure band and equalization of running hours on the compressors and dryers.



## Combined Air Plant Sizing Guide

In HTM02-01, 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 Plant Flow Rate Multiplier Value 'A'.

### Example 1 - Small Day Treatment Centre (Upgrade)

#### Flow Rate and Dryer Sizing

Medical Air DF = 555 l/min (FAD) (4 Bar)  
Surgical Air DF = 1138 l/min (FAD) (7 Bar)  
Combined/total DF = 1693 l/min (FAD)  
(10 Bar high pressure system)

A dryer greater than 1693 l/min outlet flow should be selected (outlet flow is the inlet flow minus purge losses)  
= dMED045 inlet flow 2237 l/min, outlet flow 2008 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

$$\begin{aligned}\text{Compressor flow rate} &= \text{Med. DF} + (\text{Surg. DF} \times \text{A}) \\ &= 555 + (1138 \times 0.66) \\ &= 555 + 751 \\ &= 1306 \text{ l/min}\end{aligned}$$

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

$$\begin{aligned}\text{dMED inlet} - \text{dMED outlet} &= \text{purge losses lpm} \\ &= 2237 - 2008 = 229 \text{ l/min}\end{aligned}$$

Compressors should be selected with a flow rate greater than 1306 l/min + 229 l/min = 1535 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

$$\begin{aligned}\text{Capacity} &= (\text{Med. DF} \times 0.5) + (\text{Surg. DF} \times \text{B}) \\ &= (555 \times 0.5) + (1138 \times 2 \times 2/3) \\ &= 278 + 1518 \\ &= 1796 \text{ litres}\end{aligned}$$

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

Selected receiver capacity = 2000 litres (2 x 1000 litre)

#### Plant System Selection

Selected plant description = cAIR-TGF10-1834

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.

| Surgical Air Receivers |                                       |
|------------------------|---------------------------------------|
| Design Flow (L/min)    | Value 'B' Receiver water capacity (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 2 - Large District Hospital

#### Flow Rate and Dryer Sizing

Medical Air DF = 4920 l/min (FAD) (4 Bar)

Surgical Air DF = 2888 l/min (FAD) (11 Bar)

Combined/total DF = 7808 l/min (FAD) (10 Bar high pressure system)

A dryer greater than 7808 l/min should be selected (outlet flow is the inlet flow minus purge losses)  
= dMED220 inlet flow 10902 l/min, outlet flow 8940 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

$$\begin{aligned}\text{Plant flow rate} &= \text{Med. DF} + (\text{Surg. DF} \times \text{Value 'A'}) \\ &= 4920 + (2888 \times 0.66) \\ &= 4920 + 1907 \\ &= 6827 \text{ l/min}\end{aligned}$$

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

$$\begin{aligned}\text{dMED inlet} - \text{dMED outlet} &= \text{purge losses lpm} \\ &= 10902 - 8940 = 1962 \text{ l/min}\end{aligned}$$

Compressors should be selected with a flow rate greater than 6827 l/min + 1962 l/min = 8789 l/min

#### Receiver Sizing

From Table 2 surgical air DF is between 2001-3500 l/min, so the multiplying factor 'B' = 2 x 1/2

$$\begin{aligned}\text{Capacity} &= (\text{Med. DF} \times 0.5) + (\text{Surg. DF} \times \text{B}) \\ &= (4920 \times 0.5) + (2888 \times 2 \times 1/2) \\ &= 2460 + 2888 \\ &= 5348 \text{ litres}\end{aligned}$$

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

Selected receiver capacity = 6000 litres (3 x 2000 litre)

#### Plant System Selection

Selected plant description = n/a - special configuration required

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.

[illegible]

## Receiver Selection Table

### Steel, Powder Coated (Standard)

| Receiver Capacity (litres)                            | 270          | 500          | 1000         | 1500         | 2000         | 3000         |
|-------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Maximum working pressure (bar)                        | 11           | 11           | 11           | 11           | 11           | 11           |
| Individual Receiver Dimensions (diameter, height, mm) | 500/1860     | 600/2058     | 790/2352     | 1000/2335    | 1000/2835    | 1200/3015    |
| Receiver Weight (kg)                                  | 60           | 150          | 210          | 278          | 352          | 537          |
| Receiver pipe size (mm)                               | 28           | 28           | 42           | 42           | 42           | 42           |
| Receiver Part Number                                  | 4233400922   | 4233400924   | 4233400926   | 4233400928   | 4233400930   | 4233400932   |
| Receiver Accessory Kit                                | 8102 3405 90 | 8102 3405 94 | 8102 3405 96 | 8102 3405 98 | 8102 3406 00 | 8102 3406 02 |

| Receiver Capacity (litres)                            | 270        | 500        | 1000       | 1500       | 2000       | 3000       |
|-------------------------------------------------------|------------|------------|------------|------------|------------|------------|
| Maximum working pressure (bar)                        | 16         | 16         | 16         | 16         | 16         | 16         |
| Individual Receiver Dimensions (diameter, height, mm) | 500/1860   | 600/2058   | 790/2352   | 1000/2335  | 1000/2835  | 1200/3015  |
| Receiver Weight (kg)                                  | 60         | 150        | 210        | 278        | 352        | 537        |
| Receiver pipe size (mm)                               | 28         | 28         | 42         | 42         | 42         | 42         |
| Receiver Part Number                                  | 4233400923 | 4233400925 | 4233400927 | 4233400929 | 4233400931 | 4233400933 |
| Receiver Accessory Kit                                | 8102340591 | 8102340595 | 8102340597 | 8102340599 | 8102340601 | 8102340603 |

### Galvanised steel

| Receiver Capacity (litres)                            | 270        | 500        | 1000       | 1500       | 2000       | 3000       |
|-------------------------------------------------------|------------|------------|------------|------------|------------|------------|
| Maximum working pressure (bar)                        | 16         | 16         | 16         | 16         | 16         | 16         |
| Individual Receiver Dimensions (diameter, height, mm) | 500/1860   | 600/2058   | 790/2352   | 1000/2335  | 1000/2835  | 1200/3015  |
| Receiver Weight (kg)                                  | 60         | 150        | 210        | 278        | 352        | 537        |
| Receiver pipe size (mm)                               | 28         | 28         | 42         | 42         | 42         | 42         |
| Receiver Part Number                                  | 4233400935 | 4233400937 | 4233400939 | 4233400941 | 4233400943 | 4233400945 |
| MOM receive part number                               | 4233401000 | 4233401001 | 4233401002 | 4233401003 | 4233401004 | 4233401005 |
| Receiver Accessory Kit                                | 1609104200 | 1609104000 | 1609103400 | 1609103600 | 1609103800 | 1609103800 |

\* Accessory kit for medical air receiver complete with plant data plate, test certificate, pressure safety valve, zero-loss electronic drain valve (with isolation and bypass valve), pressure gauge (with isolation valve), fusible plug, copper inlet and outlet union connection pipes (each with isolation valve).

## Dryer Selection Table

### Dryer Performance Data - 4 bar System

| Model Name                                                           | dMED 025     | dMED 035     | dMED 046     | dMED 075     | dMED 090     | dMED 110     | dMED 150     | dMED 220     | dMED 300     |
|----------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Inlet flow (l/m) at 7.5 Bar *                                        | 708          | 991          | 1274         | 2124         | 2549         | 3115         | 4248         | 6230         | 8495         |
| Output flow (l/m) at 4 bar                                           | 581          | 813          | 1045         | 1742         | 2090         | 2554         | 3483         | 5109         | 6966         |
| Inlet flow (l/m) at 10 Bar **                                        | 963          | 1359         | 1756         | 2917         | 3483         | 4276         | 5833         | 8523         | 11638        |
| Output flow (l/m) at 4 bar                                           | 836          | 1181         | 1527         | 2535         | 3024         | 3715         | 5068         | 7402         | 10109        |
| Inlet flow (l/m) at 13 Bar ***                                       | 1246         | 1727         | 2237         | 3710         | 4474         | 5465         | 7447         | 10902        | 14866        |
| Output flow (l/m) at 4 bar                                           | 1119         | 1549         | 2008         | 3328         | 4015         | 4904         | 6682         | 9781         | 13337        |
| Part Number - dryer at 4 bar outlet + QDT                            | 8102 3709 63 | 8102 3709 66 | 8102 3709 69 | 8102 3709 75 | 8102 3709 78 | 8102 3709 81 | 8102 3709 84 | 8102 3709 90 | 8102 3709 93 |
| Part Number - dryer at 4 bar outlet + QDT hopcalite filter for EurPh | 8102 3711 93 | 8102 3711 96 | 8102 3711 99 | 8102 3712 05 | 8102 3712 08 | 8102 3712 11 | 8102 3712 14 | 8102 3712 20 | 8102 3712 23 |

\* 7.5 to 4 bar setup is supplied as standard to the above part numbers.

\*\* For 10 to 4 bar order the above part numbers plus the option 0000022418 (Factory set 10 to 4 bar dryer)

\*\*\* For 13 to 4 bar order the above part numbers plus the option 0000022419 (Factory set 13 to 4 bar dryer)

### Dryer Performance Data - 7 & 8 bar System

| Model Name                                                           | dMED 025     | dMED 035     | dMED 046     | dMED 075     | dMED 090     | dMED 110     | dMED 150     | dMED 220     | dMED 300     |
|----------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Inlet flow (l/m) at 10 Bar *                                         | 963          | 1359         | 1756         | 2917         | 3483         | 4276         | 5833         | 8523         | 10638        |
| Output flow (l/m) at 7 bar                                           | 836          | 1181         | 1527         | 2535         | 3024         | 3715         | 5068         | 7402         | 10109        |
| Inlet flow (l/m) at 13 Bar **                                        | 1246         | 1727         | 2237         | 3710         | 4474         | 5465         | 7447         | 10902        | 14866        |
| Output flow (l/m) at 8 bar                                           | 1119         | 1549         | 2008         | 3328         | 4015         | 4904         | 6682         | 9781         | 13337        |
| Part Number - dryer at 7 bar outlet + QDT                            | 8102 3709 64 | 8102 3709 67 | 8102 3709 70 | 8102 3709 76 | 8102 3709 79 | 8102 3709 82 | 8102 3709 85 | 8102 3709 91 | 8102 3709 94 |
| Part Number - dryer at 7 bar outlet + QDT hopcalite filter for EurPh | 8102 3711 94 | 8102 3711 97 | 8102 3712 00 | 8102 3712 06 | 8102 3712 09 | 8102 3712 12 | 8102 3712 15 | 8102 3712 21 | 8102 3712 24 |

\* 10 to 7 bar setup is supplied as standard to the above part numbers.

\*\* For 13 to 8 bar order the above part numbers plus the option 0000022438 (Factory set 13 to 8 bar dryer).

### Dryer Performance Data - 10 bar System

| Model Name                                                            | dMED 025     | dMED 035     | dMED 046     | dMED 075     | dMED 090     | dMED 110     | dMED 150     | dMED 220     | dMED 300     |
|-----------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Inlet flow at 13 bar (litres/minute)                                  | 1246         | 1727         | 2237         | 3710         | 4474         | 5465         | 7447         | 10902        | 14866        |
| Output flow (litres/minute) at 10 bar line pressure *                 | 1119         | 1549         | 2008         | 3328         | 4015         | 4904         | 6682         | 9781         | 13337        |
| Part Number - dryer at 10 bar outlet + QDT                            | 8102 3709 65 | 8102 3709 68 | 8102 3709 71 | 8102 3709 77 | 8102 3709 80 | 8102 3709 83 | 8102 3709 86 | 8102 3709 92 | 8102 3709 95 |
| Part Number - dryer at 10 bar outlet + QDT hopcalite filter for EurPh | 8102 3711 95 | 8102 3711 98 | 8102 3712 01 | 8102 3712 07 | 8102 3712 10 | 8102 3712 13 | 8102 3712 16 | 8102 3712 22 | 8102 3712 25 |

## Dryer General Data - All types

| Model Name                                                    | dMED 025          | dMED 035          | dMED 046          | dMED 075          | dMED 090          |
|---------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Footprint L x W x H (mm)                                      | 1315 x 750 x 1580 | 1315 x 750 x 1605 | 1315 x 750 x 1580 | 1325 x 750 x 1580 | 1355 x 750 x 1580 |
| Dryer weight (kg)                                             | 220               | 240               | 280               | 320               | 360               |
| Inlet and outlet connections (mm)                             | 28                | 28                | 28                | 28                | 28                |
| Supply voltage (v)                                            | 115/230           | 115/230           | 115/230           | 115/230           | 115/230           |
| Supply frequency (Hz)                                         | 50-60             | 50-60             | 50-60             | 50-60             | 50-60             |
| Central control supply - single phase (mm <sup>2</sup> /Amps) | 1.5/1             | 1.5/1             | 1.5/1             | 1.5/1             | 1.5/1             |

| Model Name                                                    | dMED 110          | dMED 150          | dMED 220           | dMED 300           |
|---------------------------------------------------------------|-------------------|-------------------|--------------------|--------------------|
| Footprint L x W x H (mm)                                      | 1335 x 750 x 1720 | 1600 x 865 x 1915 | 1910 x 1160 x 1580 | 1910 x 1225 x 1900 |
| Dryer weight (kg)                                             | 450               | 510               | 650                | 760                |
| Inlet and outlet connections (mm)                             | 28                | 28                | 42                 | 42                 |
| Supply voltage (v)                                            | 115/230           | 115/230           | 115/230            | 115/230            |
| Supply frequency (Hz)                                         | 50-60             | 50-60             | 50-60              | 50-60              |
| Central control supply - single phase (mm <sup>2</sup> /Amps) | 1.5/1             | 1.5/1             | 1.5/1              | 1.5/1              |

\* Output flow stated includes calculated purge lost during the regeneration process of between 15-19% depending on model and inlet pressure.

Notes on plant:

- Design flow in terms of free air delivered after losses at working pressure with the reserve compressor(s) on standby. Tolerance  $\pm 5\%$ .
- Component dimensions supplied do not include maintenance access space, and are provided to allow customer to arrange plant components within plant room. Complete installation drawings are available on request. Quote the drawing number required.
- Duplex systems must be installed with a manifold as the third source of supply for HTM02-01 compliance.
- Mean sound level in accordance with ISO 2151.
- Electrical details are provided for guidance only. Site conditions may impose a larger cable size. For exact cable sizing and fuse/MCB ratings, consult a qualified electrical engineer.

| dMED Air Purifier Options                         |            |
|---------------------------------------------------|------------|
| CO sensor for dMED Air Purifier                   | 0000022427 |
| CO <sub>2</sub> sensor for dMED Air Purifier      | 0000022428 |
| CO <sub>2</sub> & CO sensor for dMED Air Purifier | 0000022429 |
| EWD on WSD and filters (24 V), 025-090            | 0000022408 |
| EWD on WSD and filters (24 V), 110-300            | 0000022409 |
| QDT saturation indicator                          | 0000020359 |

\* Only up to 10bar

|                               |            |
|-------------------------------|------------|
| Factory set 10 to 4 bar dryer | 0000022418 |
| Factory set 13 to 4 bar dryer | 0000022419 |
| Factory set 13 to 8 bar dryer | 0000022438 |

**HTM 02-01 Medical Air 4 bar – 60 Hz**
**GA MED Fixed Speed Screw Compressors, dMED dryer (Standard QDT)**

| Model Name                 | mAIR-TGF                        | mAIR-TGF                         | mAIR-TGF                         | mAIR-TGF                         | mAIR-TGF                         | mAIR-TGF                         | mAIR-TGF                         | mAIR-QGF                         | mAIR-QGF                         | mAIR-QGF                         | mAIR-QGF                         |
|----------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Model Description          | mAIR-TGF4-722<br>HTM02-01 60 Hz | mAIR-TGF4-1000<br>HTM02-01 60 Hz | mAIR-TGF4-1442<br>HTM02-01 60 Hz | mAIR-TGF4-2157<br>HTM02-01 60 Hz | mAIR-TGF4-2619<br>HTM02-01 60 Hz | mAIR-TGF4-3189<br>HTM02-01 60 Hz | mAIR-TGF4-3483<br>HTM02-01 60 Hz | mAIR-QGF4-4315<br>HTM02-01 60 Hz | mAIR-QGF4-5109<br>HTM02-01 60 Hz | mAIR-QGF4-6379<br>HTM02-01 60 Hz | mAIR-QGF4-6966<br>HTM02-01 60 Hz |
| Design Flow (L/min) *      | 722                             | 1000                             | 1442                             | 2157                             | 2619                             | 3189                             | 3483                             | 4315                             | 5109                             | 6379                             | 6966                             |
| Number of Compressors      | 3                               | 3                                | 3                                | 3                                | 3                                | 3                                | 3                                | 4                                | 4                                | 4                                | 4                                |
| Type of Compressors        | GA5 MED<br>7.5 Bar              | GA7 MED<br>7.5 Bar               | GA11 MED<br>7.5 Bar              | GA15 MED<br>7.5 Bar              | GA18 MED<br>7.5 Bar              | GA22 MED<br>7.5 Bar              | GA26 MED<br>7.5 Bar              | GA15 MED<br>7.5 Bar              | GA18 MED<br>7.5 Bar              | GA22 MED<br>7.5 Bar              | GA26 MED<br>7.5 Bar              |
| Type of dryer              | dMED 035<br>7.5-4               | dMED 046<br>7.5-4                | dMED 075<br>7.5-4                | dMED 110<br>7.5-4                | dMED 150<br>7.5-4                | dMED 150<br>7.5-4                | dMED 150<br>7.5-4                | dMED 220<br>7.5-4                | dMED 220<br>7.5-4                | dMED 300<br>7.5-4                | dMED 300<br>7.5-4                |
| Number of receivers        | 2                               | 2                                | 2                                | 2                                | 2                                | 2                                | 2                                | 2                                | 2                                | 2                                | 2                                |
| Receiver volume (l) each   | 270<br>11 Bar                   | 270<br>11 Bar                    | 500<br>11 Bar                    | 1000<br>11 Bar                   | 1000<br>11 Bar                   | 1000<br>11 Bar                   | 1000<br>11 Bar                   | 1500<br>11 Bar                   | 1500<br>11 Bar                   | 2000<br>11 Bar                   | 2000<br>11 Bar                   |
| Part Number (With Vessels) | 4233 6006 77                    | 4233 6006 78                     | 4233 6006 79                     | 4233 6006 80                     | 4233 6006 81                     | 4233 6006 82                     | 4233 6006 83                     | 4233 6006 84                     | 4233 6006 85                     | 4233 6006 86                     | 4233 6006 87                     |
| Part Number (No Vessels)   | 4233 6010 51                    | 4233 6010 52                     | 4233 6010 53                     | 4233 6010 54                     | 4233 6010 55                     | 4233 6010 56                     | 4233 6010 57                     | 4233 6010 58                     | 4233 6010 59                     | 4233 6010 60                     | 4233 6010 61                     |

\* Actual plant flow is equal to Design Flow (DF).

**HTM 02-01 Medical Air 7 bar – 60 Hz**
**GA MED Fixed Speed Screw Compressors, dMED dryer (Standard QDT)**

| Model Name                 | mAIR-TGF                          | mAIR-TGF                           | mAIR-TGF                           | mAIR-TGF                           | mAIR-TGF                           | mAIR-TGF                           | mAIR-TGF                           | mAIR-QGF                           | mAIR-QGF                           | mAIR-QGF                           | mAIR-PGF                            |
|----------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Model Description          | cAIR-TGF7-836-<br>HTM 02-01 60 Hz | cAIR-TGF7-1028-<br>HTM 02-01 60 Hz | cAIR-TGF7-1524-<br>HTM 02-01 60 Hz | cAIR-TGF7-2294-<br>HTM 02-01 60 Hz | cAIR-TGF7-2736-<br>HTM 02-01 60 Hz | cAIR-TGF7-3024-<br>HTM 02-01 60 Hz | cAIR-TGF7-3715-<br>HTM 02-01 60 Hz | cAIR-QGF7-4586-<br>HTM 02-01 60 Hz | cAIR-QGF7-6000-<br>HTM 02-01 60 Hz | cAIR-QGF7-7402-<br>HTM 02-01 60 Hz | cAIR-PGF7-10109-<br>HTM 02-01 60 Hz |
| Design Flow (L/min) *      | 836                               | 1028                               | 1524                               | 2294                               | 2736                               | 3024                               | 3715                               | 4586                               | 6000                               | 7402                               | 10109                               |
| Actual Plant Flow (L/min)  | 575                               | 854                                | 1265                               | 1904                               | 2271                               | 2757                               | 3177                               | 3807                               | 5311                               | 6355                               | 8119                                |
| Number of Compressors      | 3                                 | 3                                  | 3                                  | 3                                  | 3                                  | 3                                  | 3                                  | 4                                  | 4                                  | 4                                  | 5                                   |
| Type of Compressors        | GA5 MED<br>10 Bar                 | GA7 MED<br>10 Bar                  | GA11 MED<br>10 Bar                 | GA15 MED<br>15 Bar                 | GA18 MED<br>10 Bar                 | GA22 MED<br>10 Bar                 | GA26 MED<br>10 Bar                 | GA15 MED<br>10 Bar                 | GA22 MED<br>10 Bar                 | GA26 MED<br>10 Bar                 | GA22 MED<br>10 Bar                  |
| Type of dryer              | dMED 025<br>10-7                  | dMED 035<br>10-7                   | dMED 046<br>10-7                   | dMED 075<br>10-7                   | dMED 090<br>10-7                   | dMED 090<br>10-7                   | dMED 110<br>10-7                   | dMED 150<br>10-7                   | dMED 220<br>10-7                   | dMED 220<br>10-7                   | dMED 300<br>10-7                    |
| Number of receivers        | 2                                 | 2                                  | 2                                  | 2                                  | 2                                  | 2                                  | 2                                  | 3                                  | 3                                  | 3                                  | 3                                   |
| Receiver volume (l) each   | 1000<br>11 Bar                    | 1000<br>11 Bar                     | 1000<br>11 Bar                     | 1500<br>11 Bar                     | 1500<br>11 Bar                     | 1500<br>11 Bar                     | 2000<br>11 Bar                     | 1500<br>11 Bar                     | 1500<br>11 Bar                     | 2000<br>11 Bar                     | 3000<br>11 Bar                      |
| Part Number (With Vessels) | 4233 6006 88                      | 4233 6006 89                       | 4233 6006 90                       | 4233 6006 91                       | 4233 6006 92                       | 4233 6006 93                       | 4233 6006 94                       | 4233 6006 95                       | 4233 6006 96                       | 4233 6006 97                       | 4233 6006 98                        |
| Part Number (No Vessels)   | 4233 6010 62                      | 4233 6010 63                       | 4233 6010 64                       | 4233 6010 65                       | 4233 6010 66                       | 4233 6010 67                       | 4233 6010 68                       | 4233 6010 69                       | 4233 6010 70                       | 4233 6010 71                       | 4233 6010 72                        |

\* Plant based on a 50/50 split of medical and surgical air design flow.

**HTM 02-01 Combined Air 8 bar - 60 Hz**
**GA MED Fixed Speed Screw Compressors, dMED dryer (Standard QDT)**

| Model Name                    | cAIR-TGF                          | cAIR-TGF                          | cAIR-TGF                              | cAIR-TGF                              | cAIR-TGF                              | cAIR-TGF                              | cAIR-TGF                              |
|-------------------------------|-----------------------------------|-----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Model Description             | cAIR-TGF8-576-<br>HTM 02-01 60 Hz | cAIR-TGF8-874-<br>HTM 02-01 60 Hz | cAIR-TGF8-<br>1376-HTM 02-01<br>60 Hz | cAIR-TGF8-<br>1958-HTM 02-01<br>60 Hz | cAIR-TGF8-<br>2504-HTM 02-01<br>60 Hz | cAIR-TGF8-<br>2988-HTM 02-01<br>60 Hz | cAIR-TGF8-<br>3328-HTM 02-01<br>60 Hz |
| Design Flow (L/min) *         | 576                               | 874                               | 1376                                  | 1958                                  | 2504                                  | 2988                                  | 3328                                  |
| Actual Plant Flow (L/min)     | 383                               | 725                               | 1142                                  | 1625                                  | 2078                                  | 2480                                  | 3068                                  |
| Number of Compressors         | 3                                 | 3                                 | 3                                     | 3                                     | 3                                     | 3                                     | 3                                     |
| Type of Compressor            | GA5 MED<br>13 Bar                 | GA7 MED<br>13 Bar                 | GA 11 MED<br>13 Bar                   | GA15 MED<br>13 Bar                    | GA18 MED<br>13 Bar                    | GA22 MED<br>13 Bar                    | GA26 MED<br>13 Bar                    |
| Type of dryer                 | dMED 025 13-8                     | dMED 025 13-8                     | dMED 035 13-8                         | dMED 046<br>13-8                      | dMED 075<br>13-8                      | dMED 075<br>13-8                      | dMED 075<br>13-8                      |
| Number of receivers           | 1                                 | 2                                 | 2                                     | 2                                     | 2                                     | 2                                     | 2                                     |
| Receiver volume (l) each      | 1000<br>14 Bar                    | 1000<br>14 Bar                    | 1000<br>14 Bar                        | 1000<br>14 Bar                        | 1500<br>14 Bar                        | 1500<br>14 Bar                        | 2000<br>14 Bar                        |
| Part Number<br>(With Vessels) | 4233600699                        | 4233600700                        | 4233600701                            | 4233600702                            | 4233600703                            | 4233600704                            | 4233600705                            |
| Part Number<br>(No Vessels)   | 4233601073                        | 4233601074                        | 4233601075                            | 4233601076                            | 4233601077                            | 4233601078                            | 4233601079                            |

| Model Name                    | cAIR-QGF                           | cAIR-QGF                           | cAIR-QGF                           | cAIR-QGF                           | cAIR-PGF                           | cAIR-HGF                            |
|-------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Model Description             | cAIR-QGF8-3914-<br>HTM 02-01 60 Hz | cAIR-QGF8-4904-<br>HTM 02-01 60 Hz | cAIR-QGF8-5974-<br>HTM 02-01 60 Hz | cAIR-QGF8-6000-<br>HTM 02-01 60 Hz | cAIR-PGF8-9781-<br>HTM 02-01 60 Hz | cAIR-HGF8-12000-<br>HTM 02-01 60 Hz |
| Design Flow (L/min) *         | 3914                               | 4904                               | 5974                               | 6000                               | 9781                               | 12000                               |
| Actual Plant Flow<br>(L/min)  | 3249                               | 4359                               | 4959                               | 6135                               | 7465                               | 9919                                |
| Number of Compressors         | 4                                  | 4                                  | 4                                  | 4                                  | 5                                  | 6                                   |
| Type of Compressor            | GA15 MED<br>13 Bar                 | GA18 MED<br>13 Bar                 | GA22 MED<br>13 Bar                 | GA26 MED<br>13 Bar                 | GA22 MED<br>13 Bar                 | GA22 MED<br>13 Bar                  |
| Type of dryer                 | dMED 090 13-8                      | dMED 110<br>13-8                   | dMED 150<br>13-8                   | dMED 150<br>13-8                   | dMED 220<br>13-8                   | dMED 300<br>13-8                    |
| Number of receivers           | 2                                  | 3                                  | 3                                  | 3                                  | 3                                  | 3                                   |
| Receiver volume (l)           | 2000<br>14 Bar                     | 1500<br>14 Bar                     | 1500<br>14 Bar                     | 1500<br>14 Bar                     | 3000<br>14 Bar                     | 3000<br>14 Bar                      |
| Part Number<br>(With Vessels) | 4233600706                         | 4233600707                         | 4233600708                         | 4233600709                         | 4233600710                         | 4233600711                          |
| Part Number<br>(No Vessels)   | 4233601080                         | 4233601081                         | 4233601082                         | 4233601083                         | 4233601084                         | 4233601085                          |

\* Plant based on a 50/50 split of medical and surgical air design flow.

**HTM 02-01 Combined Air 10 bar – 60 Hz**
**GA MED Fixed Speed Screw Compressors, dMED dryer (Standard QDT)**

| Model Name                    | cAIR-TGF                           | cAIR-TGF                           | cAIR-TGF                            | cAIR-TGF                            | cAIR-TGF                            | cAIR-TGF                            | cAIR-TGF                            |
|-------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Model Description             | cAIR-TGF10-576-<br>HTM 02-01 60 Hz | cAIR-TGF10-874-<br>HTM 02-01 60 Hz | cAIR-TGF10-1376-<br>HTM 02-01 60 Hz | cAIR-TGF10-1958-<br>HTM 02-01 60 Hz | cAIR-TGF10-2504-<br>HTM 02-01 60 Hz | cAIR-TGF10-2988-<br>HTM 02-01 60 Hz | cAIR-TGF10-3328-<br>HTM 02-01 60 Hz |
| Design Flow (L/min) *         | 576                                | 874                                | 1376                                | 1958                                | 2504                                | 2988                                | 3328                                |
| Actual Plant Flow (L/min)     | 383                                | 725                                | 1142                                | 1625                                | 2078                                | 2480                                | 3068                                |
| Number of Compressors         | 3                                  | 3                                  | 3                                   | 3                                   | 3                                   | 3                                   | 3                                   |
| Type of Compressor            | GA5 MED 13 Bar                     | GA7 MED 13 Bar                     | GA11 MED 13 Bar                     | GA15 MED 13 Bar                     | GA18 MED 13 Bar                     | GA22 MED 13 Bar                     | GA26 MED 13 Bar                     |
| Type of dryer                 | dMED 025<br>13-10                  | dMED 025<br>13-10                  | dMED 035<br>13-10                   | dMED 046<br>13-10                   | dMED 075<br>13-10                   | dMED 075<br>13-10                   | dMED 075<br>13-10                   |
| Number of receivers           | 1                                  | 2                                  | 2                                   | 2                                   | 2                                   | 2                                   | 2                                   |
| Receiver volume (l) each      | 1000<br>14 Bar                     | 1000<br>14 Bar                     | 1000<br>14 Bar                      | 1000<br>14 Bar                      | 1500<br>14 Bar                      | 1500<br>14 Bar                      | 2000<br>14 Bar                      |
| Part Number<br>(With Vessels) | 4233 6007 12                       | 4233 6007 13                       | 4233 6007 14                        | 4233 6007 15                        | 4233 6007 16                        | 4233 6007 17                        | 4233 6007 18                        |
| Part Number<br>(No Vessels)   | 4233 6010 86                       | 4233 6010 87                       | 4233 6010 88                        | 4233 6010 89                        | 4233 6010 90                        | 4233 6010 91                        | 4233 6010 92                        |

| Model Name                    | cAIR-QGF                            | cAIR-QGF                            | cAIR-QGF                            | cAIR-QGF                            | cAIR-PGF                            | cAIR-HGF                             |
|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|
| Model Description             | cAIR-QGF10-3914-<br>HTM 02-01 60 Hz | cAIR-QGF10-4904-<br>HTM 02-01 60 Hz | cAIR-QGF10-5974-<br>HTM 02-01 60 Hz | cAIR-QGF10-6000-<br>HTM 02-01 60 Hz | cAIR-PGF10-9781-<br>HTM 02-01 60 Hz | cAIR-HGF10-12000-<br>HTM 02-01 60 Hz |
| Design Flow (L/min) *         | 3914                                | 4904                                | 5974                                | 6000                                | 9781                                | 12000                                |
| Actual Plant Flow (L/min)     | 3249                                | 4359                                | 4959                                | 6135                                | 7465                                | 9919                                 |
| Number of Compressors         | 4                                   | 4                                   | 4                                   | 4                                   | 5                                   | 6                                    |
| Type of Compressor            | GA15 MED 13 Bar                     | GA18 MED 13 Bar                     | GA22 MED 13 Bar                     | GA26 MED 13 Bar                     | GA22 MED 13 Bar                     | GA22 MED 13 Bar                      |
| Type of dryer                 | dMED 090<br>13-10                   | dMED 110<br>13-10                   | dMED 150<br>13-10                   | dMED 150<br>13-10                   | dMED 220<br>13-10                   | dMED 300<br>13-10                    |
| Number of receivers           | 2                                   | 3                                   | 3                                   | 3                                   | 3                                   | 3                                    |
| Receiver volume (l) each      | 2000<br>14 Bar                      | 1500<br>14 Bar                      | 1500<br>14 Bar                      | 1500<br>14 Bar                      | 3000<br>14 Bar                      | 3000<br>14 Bar                       |
| Part Number<br>(With Vessels) | 4233 6007 19                        | 4233 6007 20                        | 4233 6007 21                        | 4233 6007 22                        | 4233 6007 23                        | 4233 6007 24                         |
| Part Number<br>(No Vessels)   | 4233 6010 93                        | 4233 6010 94                        | 4233 6010 95                        | 4233 6010 96                        | 4233 6010 97                        | 4233 6010 98                         |

\* Plant based on a 50/50 split of medical and surgical air design flow.

### HTM 02-01 Medical Air 4 bar - 60 Hz

#### GA MED Variable Speed Screw Compressors at 7.5 bar, dMED dryer (QDT+ with additional Hopcalite filter)

| Model Name                 | mAIR-TGV                        | mAIR-TGV                         | mAIR-TGV                         | mAIR-TGV                         | mAIR-TGV                         | mAIR-TGV                         | mAIR-TGV                         | mAIR-TGV                         | mAIR-QGV                           |
|----------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|------------------------------------|
| Model Description          | mAIR-TGV4-813<br>HTM02-01 60 Hz | mAIR-TGV4-1000<br>HTM02-01 60 Hz | mAIR-TGV4-1568<br>HTM02-01 60 Hz | mAIR-TGV4-1947<br>HTM02-01 60 Hz | mAIR-TGV4-2985<br>HTM02-01 60 Hz | mAIR-TGV4-3483<br>HTM02-01 60 Hz | mAIR-TGV4-4000<br>HTM02-01 60 Hz | mAIR-TGV4-5109<br>HTM02-01 60 Hz | mAIR-QGV4-6966-<br>HTM 02-01 60 Hz |
| Design Flow (L/min) *      | 813                             | 1000                             | 1568                             | 1947                             | 2985                             | 3483                             | 4000                             | 5109                             | 6966                               |
| Number of Compressors      | 3                               | 3                                | 3                                | 3                                | 3                                | 3                                | 3                                | 3                                | 4                                  |
| Type of Compressor         | GA7 MED VSDs                    | GA7 MED VSDs                     | GA11 MED VSDs                    | GA15 MED VSDs                    | GA18 MED VSDs                    | GA22 MED VSDs                    | GA26 MED VSDs                    | GA37 MED VSDs                    | GA22 MED VSDs                      |
| Type of dryer              | dMED 035 7.5-4                  | dMED 046 7.5-4                   | dMED 075 7.5-4                   | dMED 110 7.5-4                   | dMED 150 7.5-4                   | dMED 150 7.5-4                   | dMED 220 7.5-4                   | dMED 220 7.5-4                   | dMED 300 7.5-4                     |
| Number of receivers        | 2                               | 2                                | 2                                | 2                                | 2                                | 2                                | 2                                | 2                                | 2                                  |
| Receiver volume (l) each   | 270 11 Bar                      | 270 11 Bar                       | 500 11 Bar                       | 500 11 Bar                       | 1000 11 Bar                      | 1000 11 Bar                      | 1000 11 Bar                      | 1500 11 Bar                      | 2000 11 Bar                        |
| Part Number (With Vessels) | On Request                      | On Request                       | On Request                       | On Request                       | On Request                       | On Request                       | On Request                       | On Request                       | On Request                         |
| Part Number (No Vessels)   | On Request                      | On Request                       | On Request                       | On Request                       | On Request                       | On Request                       | On Request                       | On Request                       | On Request                         |

\* Actual plant flow is equal to Design Flow (DF).

### HTM 02-01 Combined Air 7 bar - 60 Hz

#### GA MED Variable Speed Screw Compressors at 10 bar, dMED dryer (QDT+ with additional Hopcalite filter)

| Model Name                 | cAIR-TGV                           | cAIR-TGV                           | cAIR-TGV                           | cAIR-TGV                           | cAIR-QGV                           | cAIR-QGV                           | cAIR-PGV                            |
|----------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Model Description          | cAIR-TGV7-1086-<br>HTM 02-01 60 Hz | cAIR-TGV7-2106-<br>HTM 02-01 60 Hz | cAIR-TGV7-3198-<br>HTM 02-01 60 Hz | cAIR-TGV7-4746-<br>HTM 02-01 60 Hz | cAIR-QGV7-6000-<br>HTM 02-01 60 Hz | cAIR-QGV7-8394-<br>HTM 02-01 60 Hz | cAIR-PGV7-10109-<br>HTM 02-01 60 Hz |
| Design Flow (L/min) *      | 1086                               | 2106                               | 3198                               | 4746                               | 6000                               | 8394                               | 10109                               |
| Actual Plant Flow (L/min)  | 902                                | 1748                               | 2655                               | 3939                               | 5311                               | 6295                               | 8119                                |
| Number of compressors      | 3                                  | 3                                  | 3                                  | 3                                  | 4                                  | 4                                  | 5                                   |
| Type of Compressor         | GA7 MED VSDs                       | GA15 MED VSDs                      | GA18 MED VSDs                      | 26 MED VSDs                        | GA18 MED VSDs                      | GA22 MED VSDs                      | GA18 MED VSDs                       |
| Type of dryer              | dMED 035 10-7                      | dMED 075 10-7                      | dMED 110 10-7                      | dMED 150 10-7                      | dMED 220 10-7                      | dMED 220 10-7                      | dMED 300 10-7                       |
| Number of receivers        | 2                                  | 2                                  | 2                                  | 2                                  | 3                                  | 3                                  | 3                                   |
| Receiver volume (l) each   | 1000 11 Bar                        | 1000 11 Bar                        | 1500 11 Bar                        | 2000 11 Bar                        | 1500 11 Bar                        | 3000 11 Bar                        | 2000 11 Bar                         |
| Part Number (With Vessels) | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                          |
| Part Number (No Vessels)   | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                          |

\* Plant based on a 50/50 split of medical and surgical air design flow.

**HTM 02-01 Combined Air 8 bar - 60 Hz**
**GA MED Variable Speed Screw Compressors at 13 bar, dMED dryer (QDT+ with additional Hopcalite filter)**

| Model Name                 | cAIR-TGV                          | cAIR-TGV                           | cAIR-TGV                           | cAIR-TGV                           | cAIR-TGV                           | cAIR-TGV                           | cAIR-TGV                           | cAIR-QGV                           | cAIR-PGV                           | cAIR-PGV                            |
|----------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Model Description          | cAIR-TGV8-874-<br>HTM 02-01 60 Hz | cAIR-TGV8-1484-<br>HTM 02-01 60 Hz | cAIR-TGV8-1740-<br>HTM 02-01 60 Hz | cAIR-TGV8-2684-<br>HTM 02-01 60 Hz | cAIR-TGV8-3328-<br>HTM 02-01 60 Hz | cAIR-TGV8-4015-<br>HTM 02-01 60 Hz | cAIR-TGV8-4904-<br>HTM 02-01 60 Hz | cAIR-QGV8-6000-<br>HTM 02-01 60 Hz | cAIR-PGV8-8946-<br>HTM 02-01 60 Hz | cAIR-PGV8-12000-<br>HTM 02-01 60 Hz |
| Design Flow (L/min) *      | 874                               | 1484                               | 1740                               | 2684                               | 3328                               | 4015                               | 4904                               | 6000                               | 8946                               | 12000                               |
| Actual Plant Flow (L/min)  | 725                               | 1232                               | 1445                               | 2228                               | 2864                               | 3411                               | 4641                               | 5727                               | 6709                               | 10081                               |
| Number of compressors      | 3                                 | 3                                  | 3                                  | 3                                  | 3                                  | 3                                  | 3                                  | 4                                  | 5                                  | 5                                   |
| Type of Compressor         | GA7 MED VSDs                      | GA11 MED VSDs                      | GA15 MED VSDs                      | GA18 MED VSDs                      | GA22 MED VSDs                      | GA26 MED VSDs                      | GA37 MED VSDs                      | GA22 MED VSDs                      | GA18 MED VSDs                      | GA26 MED VSDs                       |
| Type of dryer              | dMED 025 13-8                     | dMED 035 13-8                      | dMED 046 13-8                      | dMED 075 13-8                      | dMED 075 13-8                      | dMED 090 13-8                      | dMED 110 13-8                      | dMED 150 13-8                      | dMED 220 13-8                      | dMED 300 13-8                       |
| Number of receivers        | 2                                 | 2                                  | 2                                  | 2                                  | 2                                  | 2                                  | 3                                  | 3                                  | 3                                  | 3                                   |
| Receiver volume (l) each   | 1000<br>14 Bar                    | 1000<br>14 Bar                     | 1000<br>14 Bar                     | 1500<br>14 Bar                     | 2000<br>14 Bar                     | 2000<br>14 Bar                     | 1500<br>14 Bar                     | 1500<br>14 Bar                     | 3000<br>14 Bar                     | 3000<br>14 Bar                      |
| Part Number (With Vessels) | On Request                        | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                          |
| Part Number (No Vessels)   | On Request                        | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                          |

\* Plant based on a 50/50 split of medical and surgical air design flow.

[illegible]

### HTM 2022 Medical Air 4 bar 60 Hz

#### GA MED Fixed Speed Screw Compressors, dMED dryer (Standard QDT)

| Model Name                 | mAIR-DGF                       | mAIR-DGF                        | mAIR-DGF                        | mAIR-DGF                        | mAIR-DGF                        | mAIR-DGF                        | mAIR-DGF                        | mAIR-TGF                        | mAIR-TGF                        | mAIR-TGF                        | mAIR-TGF                        |
|----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Model Description          | mAIR-DGF4-722<br>HTM2022 60 Hz | mAIR-DGF4-1000<br>HTM2022 60 Hz | mAIR-DGF4-1442<br>HTM2022 60 Hz | mAIR-DGF4-2157<br>HTM2022 60 Hz | mAIR-DGF4-2619<br>HTM2022 60 Hz | mAIR-DGF4-3189<br>HTM2022 60 Hz | mAIR-DGF4-3483<br>HTM2022 60 Hz | mAIR-TGF4-4315<br>HTM2022 60 Hz | mAIR-TGF4-5109<br>HTM2022 60 Hz | mAIR-TGF4-6379<br>HTM2022 60 Hz | mAIR-TGF4-6966<br>HTM2022 60 Hz |
| Design Flow (L/min) *      | 722                            | 1000                            | 1442                            | 2157                            | 2619                            | 3189                            | 3483                            | 4315                            | 5109                            | 6378                            | 6966                            |
| Number of Compressors      | 2                              | 2                               | 2                               | 2                               | 2                               | 2                               | 2                               | 3                               | 3                               | 3                               | 3                               |
| Type of Compressor         | GA5 MED<br>7.5 Bar             | GA7 MED<br>7.5 Bar              | GA11 MED<br>7.5 Bar             | GA15 MED<br>7.5 Bar             | GA18 MED<br>7.5 Bar             | GA22 MED<br>7.5 Bar             | GA26 MED<br>7.5 Bar             | GA15 MED<br>7.5 Bar             | GA18 MED<br>7.5 Bar             | GA22 MED<br>7.5 Bar             | GA26 MED<br>7.5 Bar             |
| Type of dryer              | dMED 035<br>7.5-4              | dMED 046<br>7.5-4               | dMED 075<br>7.5-4               | dMED 110<br>7.5-4               | dMED 150<br>7.5-4               | dMED 150<br>7.5-4               | dMED 150<br>7.5-4               | dMED 220<br>7.5-4               | dMED 220<br>7.5-4               | dMED 300<br>7.5-4               | dMED 300<br>7.5-4               |
| Number of receivers        | 1                              | 1                               | 1                               | 1                               | 1                               | 1                               | 1                               | 1                               | 1                               | 2                               | 2                               |
| Receiver volume (l) each   | 500<br>11 Bar                  | 500<br>11 Bar                   | 1000<br>11 Bar                  | 1500<br>11 Bar                  | 1500<br>11 Bar                  | 2000<br>11 Bar                  | 2000<br>11 Bar                  | 3000<br>11 Bar                  | 3000<br>11 Bar                  | 2000<br>11 Bar                  | 2000<br>11 Bar                  |
| Part Number (With Vessels) | 4233 6008 21                   | 4233 6008 22                    | 4233 6008 23                    | 4233 6008 24                    | 4233 6008 25                    | 4233 6008 26                    | 4233 6008 27                    | 4233 6008 28                    | 4233 6008 29                    | 4233 6008 30                    | 4233 6008 31                    |
| Part Number (No Vessels)   | 4233 6011 95                   | 4233 6011 96                    | 4233 6011 97                    | 4233 6011 98                    | 4233 6011 99                    | 4233 6012 00                    | 4233 6012 01                    | 4233 6012 02                    | 4233 6012 03                    | 4233 6012 04                    | 4233 6012 05                    |

\* Actual plant flow is equal to Design Flow (DF).

### HTM 2022 Combined Air 7 bar - 60 Hz

#### GA MED Fixed Speed Screw Compressors, dMED dryer (Standard QDT)

| Model Name                 | cAIR-DGF                         | cAIR-DGF                         | cAIR-DGF                          | cAIR-DGF                          | cAIR-DGF                          | cAIR-DGF                          | cAIR-DGF                          | cAIR-TGF                          | cAIR-TGF                          | cAIR-QGF                          |
|----------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Model Description          | cAIR-DGF7-575-<br>HTM 2022 60 Hz | cAIR-DGF7-854-<br>HTM 2022 60 Hz | cAIR-DGF7-1265-<br>HTM 2022 60 Hz | cAIR-DGF7-1904-<br>HTM 2022 60 Hz | cAIR-DGF7-2348-<br>HTM 2022 60 Hz | cAIR-DGF7-2757-<br>HTM 2022 60 Hz | cAIR-DGF7-3000-<br>HTM 2022 60 Hz | cAIR-TGF7-4695-<br>HTM 2022 60 Hz | cAIR-TGF7-6355-<br>HTM 2022 60 Hz | cAIR-QGF7-9685-<br>HTM 2022 60 Hz |
| Design Flow L/min) *       | 575                              | 854                              | 1265                              | 1904                              | 2348                              | 2757                              | 3000                              | 4695                              | 6355                              | 9685                              |
| Number of Compressors      | 2                                | 2                                | 2                                 | 2                                 | 2                                 | 2                                 | 2                                 | 3                                 | 3                                 | 4                                 |
| Type of Compressor         | GA5 MED<br>10 Bar                | GA7 MED<br>10 Bar                | GA11 MED<br>10 Bar                | GA15 MED<br>10 Bar                | GA18 MED<br>10 Bar                | GA22 MED<br>10 Bar                | GA26 MED<br>10 Bar                | GA18 MED<br>10 Bar                | GA26 MED<br>10 Bar                | GA26 MED<br>10 Bar                |
| Type of dryer              | dMED 025<br>10-7                 | dMED 035<br>10-7                 | dMED 046<br>10-7                  | dMED 075<br>10-7                  | dMED 075<br>10-7                  | dMED 090<br>10-7                  | dMED 110<br>10-7                  | dMED 150<br>10-7                  | dMED 220<br>10-7                  | dMED 300<br>10-7                  |
| Number of receivers        | 1                                | 1                                | 1                                 | 1                                 | 1                                 | 1                                 | 1                                 | 1                                 | 2                                 | 2                                 |
| Receiver volume (l) each   | 500<br>11 Bar                    | 500<br>11 Bar                    | 1000<br>11 Bar                    | 1000<br>11 Bar                    | 1500<br>11 Bar                    | 1500<br>11 Bar                    | 1500<br>11 Bar                    | 3000<br>11 Bar                    | 2000<br>11 Bar                    | 3000<br>11 Bar                    |
| Part Number (With Vessels) | 4233 6008 32                     | 4233 6008 33                     | 4233 6008 34                      | 4233 6008 35                      | 4233 6008 36                      | 4233 6008 37                      | 4233 6008 38                      | 4233 6008 39                      | 4233 6008 40                      | 4233 6008 41                      |
| Part Number (No Vessels)   | 4233 6012 06                     | 4233 6012 07                     | 4233 6012 08                      | 4233 6012 09                      | 4233 6012 10                      | 4233 6012 11                      | 4233 6012 12                      | 4233 6012 13                      | 4233 6012 14                      | 4233 6012 15                      |

\* Actual plant flow is equal to Design Flow (DF).

### HTM 2022 Combined Air 10 bar - 60 Hz

#### GA MED Fixed Speed Screw Compressors, dMED dryer (Standard QDT)

| Model Name                    | cAIR-DGF                          | cAIR-DGF                           | cAIR-DGF                           | cAIR-DGF                           | cAIR-DGF                           | cAIR-TGF                           | cAIR-TGF                           | cAIR-QGF                           | cAIR-HGF                            |
|-------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Model Description             | cAIR-DGF10-725-<br>HTM 2022 60 Hz | cAIR-DGF10-1000-<br>HTM 2022 60 Hz | cAIR-DGF10-1625-<br>HTM 2022 60 Hz | cAIR-DGF10-2000-<br>HTM 2022 60 Hz | cAIR-DGF10-2991-<br>HTM 2022 60 Hz | cAIR-TGF10-4000-<br>HTM 2022 60 Hz | cAIR-TGF10-6000-<br>HTM 2022 60 Hz | cAIR-QGF10-8000-<br>HTM 2022 60 Hz | cAIR-HGF10-12000-<br>HTM 2022 60 Hz |
| Design Flow (L/min) *         | 725                               | 1000                               | 1625                               | 2000                               | 2991                               | 4000                               | 6000                               | 8000                               | 12000                               |
| Number of Compressors         | 2                                 | 2                                  | 2                                  | 2                                  | 2                                  | 3                                  | 3                                  | 4                                  | 6                                   |
| Type of Compressor            | GA7 MED<br>13 Bar                 | GA11 MED<br>13 Bar                 | GA15 MED<br>13 Bar                 | GA22 MED<br>13 Bar                 | GA26 MED<br>13 Bar                 | GA18 MED<br>13 Bar                 | GA26 MED<br>13 Bar                 | GA26 MED<br>13 Bar                 | GA22 MED<br>13 Bar                  |
| Type of dryer                 | dMED 025<br>13-10                 | dMED 035<br>13-10                  | dMED 046<br>13-10                  | dMED 075<br>13-10                  | dMED 090<br>13-10                  | dMED 110<br>13-10                  | dMED 150<br>13-10                  | dMED 220<br>13-10                  | dMED 300<br>13-10                   |
| Number of receivers           | 1                                 | 1                                  | 1                                  | 1                                  | 1                                  | 1                                  | 1                                  | 2                                  | 2                                   |
| Receiver volume (l) each      | 500<br>14 Bar                     | 500<br>14 Bar                      | 1000<br>14 Bar                     | 1000<br>14 Bar                     | 1500<br>14 Bar                     | 2000<br>14 Bar                     | 3000<br>14 Bar                     | 2000<br>14 Bar                     | 3000<br>14 Bar                      |
| Part Number<br>(With Vessels) | 4233 6008 42                      | 4233 6008 43                       | 4233 6008 44                       | 4233 6008 45                       | 4233 6008 46                       | 4233 6008 47                       | 4233 6008 48                       | 4233 6008 49                       | 4233 6008 50                        |
| Part Number<br>(No Vessels)   | 4233 6012 16                      | 4233 6012 17                       | 4233 6012 18                       | 4233 6012 19                       | 4233 6012 20                       | 4233 6012 21                       | 4233 6012 22                       | 4233 6012 23                       | 4233 6012 24                        |

\* Actual plant flow is equal to Design Flow (DF).

### HTM 2022 Medical Air 4 bar - 60 Hz

#### GA MED VSD Variable Speed Screw Compressors, dMED dryer (QDT+ with additional Hopcalite filter)

| Model Name                    | mAIR-DGV                       | mAIR-DGV                        | mAIR-DGV                        | mAIR-DGV                        | mAIR-DGV                        | mAIR-DGV                        | mAIR-DGV                        | mAIR-DGV                        | mAIR-TGV                        |
|-------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Model Description             | mAIR-DGV4-813<br>HTM2022 60 Hz | mAIR-DGV4-1000<br>HTM2022 60 Hz | mAIR-DGV4-1568<br>HTM2022 60 Hz | mAIR-DGV4-1947<br>HTM2022 60 Hz | mAIR-DGV4-2985<br>HTM2022 60 Hz | mAIR-DGV4-3483<br>HTM2022 60 Hz | mAIR-DGV4-4000<br>HTM2022 60 Hz | mAIR-DGV4-5109<br>HTM2022 60 Hz | mAIR-TGV4-6966<br>HTM2022 60 Hz |
| Design Flow (L/min) *         | 813                            | 1000                            | 1568                            | 1947                            | 2985                            | 3483                            | 4000                            | 5109                            | 6966                            |
| Number of Compressors         | 2                              | 2                               | 2                               | 2                               | 2                               | 2                               | 2                               | 2                               | 3                               |
| Type of Compressor            | GA7 MED<br>VSDs                | GA7 MED<br>VSDs                 | GA11 MED<br>VSDs                | GA15 MED<br>VSDs                | GA18 MED<br>VSDs                | GA22 MED<br>VSDs                | GA30 MED<br>VSDs                | GA37 MED<br>VSDs                | GA22 MED<br>VSDs                |
| Type of dryer                 | dMED 035<br>7.5-4              | dMED 046<br>7.5-4               | dMED 075<br>7.5-4               | dMED 110<br>7.5-4               | dMED 150<br>7.5-4               | dMED 150<br>7.5-4               | dMED 220<br>7.5-4               | dMED 220<br>7.5-4               | dMED 300<br>7.5-4               |
| Number of receivers           | 1                              | 1                               | 1                               | 1                               | 1                               | 1                               | 1                               | 1                               | 2                               |
| Receiver volume (l) each      | 500<br>11 Bar                  | 500<br>11 Bar                   | 1000<br>11 Bar                  | 1000<br>11 Bar                  | 1500<br>11 Bar                  | 2000<br>11 Bar                  | 2000<br>11 Bar                  | 3000<br>11 Bar                  | 2000<br>11 Bar                  |
| Part Number<br>(With Vessels) | On Request                     | On Request                      | On Request                      | On Request                      | On Request                      | On Request                      | On Request                      | On Request                      | On Request                      |
| Part Number<br>(No Vessels)   | On Request                     | On Request                      | On Request                      | On Request                      | On Request                      | On Request                      | On Request                      | On Request                      | On Request                      |

\* Actual plant flow is equal to Design Flow (DF).

**HTM 2022 Combined Air 7 bar - 60 Hz**
**GA MED VSD Variable Speed Screw Compressors, dMED dryer (QDT+ with additional Hopcalite filter)**

| Model Name                    | cAIR-DGV                         | cAIR-DGV                          | cAIR-DGV                          | cAIR-DGV                          | cAIR-DGV                          | cAIR-DGV                          | cAIR-DGV                          | cAIR-TGV                          | cAIR-QGV                           |
|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| Model Description             | cAIR-DGV7-902-<br>HTM 2022 60 Hz | cAIR-DGV7-1403-<br>HTM 2022 60 Hz | cAIR-DGV7-1748-<br>HTM 2022 60 Hz | cAIR-DGV7-2757-<br>HTM 2022 60 Hz | cAIR-DGV7-3351-<br>HTM 2022 60 Hz | cAIR-DGV7-4000-<br>HTM 2022 60 Hz | cAIR-DGV7-5068-<br>HTM 2022 60 Hz | cAIR-DTV7-6703-<br>HTM 2022 60 Hz | cAIR-QGV7-10109-<br>HTM 2022 60 Hz |
| Design Flow (L/min) *         | 902                              | 1403                              | 1748                              | 2757                              | 3351                              | 4000                              | 5068                              | 6703                              | 10109                              |
| Number of Compressors         | 2                                | 2                                 | 2                                 | 2                                 | 2                                 | 2                                 | 2                                 | 3                                 | 4                                  |
| Type of Compressor            | GA7 MED<br>VSDs                  | GA11 MED<br>VSDs                  | GA15 MED<br>VSDs                  | GA18 MED<br>VSDs                  | GA22 MED<br>VSDs                  | GA30 MED<br>VSDs                  | GA37 MED<br>VSDs                  | GA22 MED<br>VSDs                  | GA22 MED<br>VSDs                   |
| Type of dryer                 | dMED 035<br>10-7                 | dMED 046<br>10-7                  | dMED 075<br>10-7                  | dMED 090<br>10-7                  | dMED 110<br>10-7                  | dMED 150<br>10-7                  | dMED 150<br>10-7                  | dMED 220<br>10-7                  | dMED 300<br>10-7                   |
| Number of receivers           | 1                                | 1                                 | 1                                 | 1                                 | 1                                 | 1                                 | 1                                 | 2                                 | 2                                  |
| Receiver volume (l) each      | 500<br>11 Bar                    | 1000<br>11 Bar                    | 1000<br>11 Bar                    | 1500<br>11 Bar                    | 2000<br>11 Bar                    | 2000<br>11 Bar                    | 3000<br>11 Bar                    | 2000<br>11 Bar                    | 3000<br>11 Bar                     |
| Part Number<br>(With Vessels) | On Request                       | On Request                        | On Request                        | On Request                        | On Request                        | On Request                        | On Request                        | On Request                        | On Request                         |
| Part Number<br>(No Vessels)   | On Request                       | On Request                        | On Request                        | On Request                        | On Request                        | On Request                        | On Request                        | On Request                        | On Request                         |

\* Actual plant flow is equal to Design Flow (DF).

**HTM 2022 Combined Air 10 bar - 60 Hz**
**GA MED VSD Variable Speed Screw Compressors, dMED dryer (QDT+ with additional Hopcalite filter)**

| Model Name                    | cAIR-DGV                          | cAIR-DGV                           | cAIR-DGV                           | cAIR-DGV                          | cAIR-DGV                           | cAIR-DGV                           | cAIR-DGV                           | cAIR-TGV                           | cAIR-QGV                           | cAIR-PGV                            |
|-------------------------------|-----------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Model Description             | cAIR-DGV10-725-<br>HTM 2022 60 Hz | cAIR-DGV10-1000-<br>HTM 2022 60 Hz | cAIR-DGV10-1496-<br>HTM 2022 60 Hz | cAIR-DGV10-2000-<br>HTM 2022 50Hz | cAIR-DGV10-2864-<br>HTM 2022 60 Hz | cAIR-DGV10-3000-<br>HTM 2022 60 Hz | cAIR-DGV10-4000-<br>HTM 2022 60 Hz | cAIR-TGV10-5727-<br>HTM 2022 60 Hz | cAIR-QGV10-8000-<br>HTM 2022 60 Hz | cAIR-PGV10-12000-<br>HTM 2022 60 Hz |
| Design Flow (L/min) *         | 725                               | 1000                               | 1496                               | 2000                              | 2864                               | 3000                               | 4000                               | 5727                               | 8000                               | 12000                               |
| Number of Compressors         | 2                                 | 2                                  | 2                                  | 2                                 | 2                                  | 2                                  | 2                                  | 3                                  | 4                                  | 5                                   |
| Type of Compressor            | GA7 MED<br>VSDs                   | GA11 MED<br>VSDs                   | GA15 MED<br>VSDs                   | GA18 MED<br>VSDs                  | GA22 MED<br>VSDs                   | GA26 MED<br>VSDs                   | GA37 MED<br>VSDs                   | GA22 MED<br>VSDs                   | GA22 MED<br>VSDs                   | GA26 MED<br>VSDs                    |
| Type of dryer                 | dMED 025<br>13-10                 | dMED 035<br>13-10                  | dMED 035<br>13-10                  | dMED 046<br>13-10                 | dMED 075<br>13-10                  | dMED 090<br>13-10                  | dMED 110<br>13-10                  | dMED 150<br>13-10                  | dMED 220<br>13-10                  | dMED 300<br>13-10                   |
| Number of receivers           | 1                                 | 1                                  | 1                                  | 1                                 | 1                                  | 1                                  | 1                                  | 1                                  | 2                                  | 2                                   |
| Receiver volume (l) each      | 500<br>14 Bar                     | 500<br>14 Bar                      | 1000<br>14 Bar                     | 1000<br>14 Bar                    | 1500<br>14 Bar                     | 1500<br>14 Bar                     | 2000<br>14 Bar                     | 3000<br>14 Bar                     | 2000<br>14 Bar                     | 3000<br>14 Bar                      |
| Part Number<br>(With Vessels) | On Request                        | On Request                         | On Request                         | On Request                        | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                          |
| Part Number<br>(No Vessels)   | On Request                        | On Request                         | On Request                         | On Request                        | On Request                         | On Request                         | On Request                         | On Request                         | On Request                         | On Request                          |

\* Actual plant flow is equal to Design Flow (DF).