

Duplex Air Compressor Stations

Something which, to our knowledge, is unique – our duplex compressor station. Two compressor pumps automatically controlled on a coincident and/or alternate basis to give additional output at low pressures and backup for maintenance purposes (or in case of component replacement).

We manufacture duplex compressor stations (to our customers' individual specifications) for a number of reasons - the need for resilience and backup in case of failure (pump wear is shared during normal use, and a manual override allows continued operation for maintenance); additional capacity in the absence of three-phase supply (two single phase pumps can give up to 17cfm) etc.

All of our duplex stations are supplied with air receivers, so an outlet regulator or air maintenance device can be used; they may also be used with air dryers for chiller/freezer applications; each is built and tuned to your individual requirements, and fully set and tested prior to despatch in accordance with our exacting quality standards.

A duplex station can be manufactured using virtually any of the compressors in our range based on either 230v or 400v (with neutral) power supplies.

All duplex units comply with LPC, FM and NFPA guidelines, and all materials comply with PED 97/23/EC.



Key Standard Functions & features

- AUTO: Fast-fill or low pressure mode – both pumps operate together for maximum output; maintenance mode – pumps alternate to share load.
- MANUAL: Either pump can be selected individually.
- Full control panel with isolator, thermal overloads, load-sharing relay to manage compressor utilisation, LED indicators for power, fault & running status.
- Solenoid unloader valves and non-return valves prevents compressors starting under load.
- Pressure switches to control sharing relay (or pumps in 'manual' mode).
- Pressure safety relief valve.
- Glycerine filled pressure gauge.
- Flexible hose with ½" adaptor for system connection.
- Floor-standing as standard, wall-mount option available.
- Anti-vibration motor mounts.
- Air receiver 24 litre 11 bar receiver with drain valve (auto-drain option available).
- Maintenance and replacement parts are readily available.



Continued overleaf

Options

- Wall mounting.
- Supply faulty relay connection to alarm/panel.
- Automatic (timed) receiver drain.
- Low pressure alarm switch.
- Run-time counters.



Approximate dimensions of all models: H1250mm, W600mm, D500mm.

Photographs are shown for illustrative purposes only and may not clearly show the latest design and specific features – please check with us if any features or design points are critical to your project.

All of our duplex compressors are made to order, often to unique specifications, so please contact us to discuss your requirements.

Data Table

Description	Model	Volt/Ph*	kW/hp	Gross Cfm/lpm	FAD Cfm/lpm
Small oil-free Ultra-quiet	SEP0.7S/DC	230/1	1.5/2.0	11.6/330	7.6/216
Small lubricated	SEP1.5S/DC	230/1	3.0/4.0	15.4/440	12.8/360
Medium lubricated	SEP1.8S/DC	230/1	3.6/5.0	17.4/500	14.4/410
Medium lubricated	SEP1.8T/DC	400/3	3.6/5.0	17.4/500	14.4/410

* 400v/3-phase supply **must** have neutral connection