Industrial

Duplex Scroll Vertical Space Saver

2-10 HP



Amico Vertical Space Saver Air Package

Delivering clean compressed air using a completely oil free design. Four-point, heavy duty isolation system for a minimum 95% isolation efficiency, fully isolates the compressor / motor tower from the system. Finite element analysis conducted to minimize vibration transfer.

- Single point of connection to control panel, desiccant dryer, discharge and auto drain assembly.
- Two oil-less scroll compressors and two motors.
- Duplex desiccant drying system with purge control.
  - Simplex refrigerated option available (separate 120V power required).
- Integral pre-wired control panel.

Compressor Module

Compressors are continuous duty rated scroll type, single stage and air-cooled. Each module includes one scroll compressors and one NEMA rated, one TEFC enclosed motor that operates with 1.15 service factor suitable for 230/460V or 208V electrical service. The compressors have orbiting scroll sealed with PTFE tip seals. Air is drawn from intake filters built onto the scrolls.

- Ease of maintenance with field replaceable tip seals.
- Dust and contamination protection from two part face seal.
- Orbiting bearing and pin crank bearings are grease filled.
- Heat dissipation maximized by an integral cooling fan and external aftercooler at discharge of each Scroll.
- V-belt driven.
- Custom fabricated motor mounting base for simple belt tensioning.

Air Receiver

Epoxy lined corrosion resistant vertical receiver (up to 120G) rated for minimum of 165 PSIG pressure rating with pressure gauge and safety relief valve.

- Piped 3 valve bypass.
- Zero loss condensate drain.
- 200 PSI Gauge and relief valve.

Dual Desiccant Dryer Assembly

The duplex dryer system includes two twin tower desiccant dryers, pre-filters, post filters, regulators, safety relief valves, gauges, dewpoint sensor and integral purge saving control system within a six-valve bypass arrangement.

- Fully duplexed prefilters shall be rated for 0.01 micron and capable of removing both aerosols and particulate. The prefilters shall be mounted and pre-piped with automatic float drain and element change indicator.
- Fully duplexed post filters shall be rated for 1 micron particulate removal and shall be mounted and pre-piped with element change indicator.
- Fully duplexed regulators shall be factory set at 55 PSI for 120 PSIG operating or 100 PSIG for 145 PSIG operating pressure.
- Safety relief valve comes standard - 75 PSI for 120 PSIG operating or 125 PSI for 145 PSIG operating pressure.

Value Control Panel

The duplex mounted and wired value control system is U.L. labeled. The control system provides automatic lead/lag sequencing and automatic alternation of both compressors based on first-on/first-off principle with provision for simultaneous operation if required. With an integrated control panel, users can easily monitor, control, and diagnose the system, making operations more straightforward.

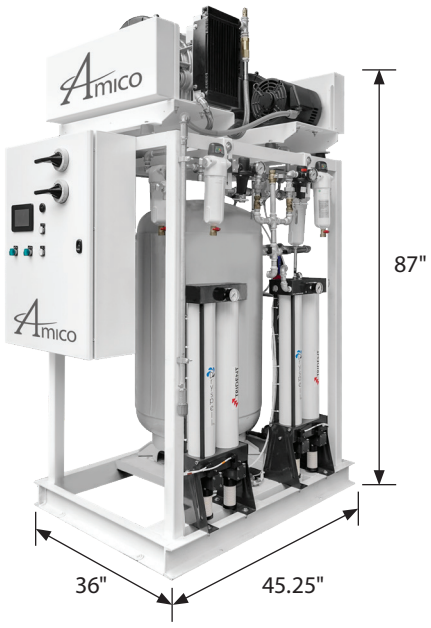
- Control panel pre-drilled for power.
- Options available for additional monitoring and control.

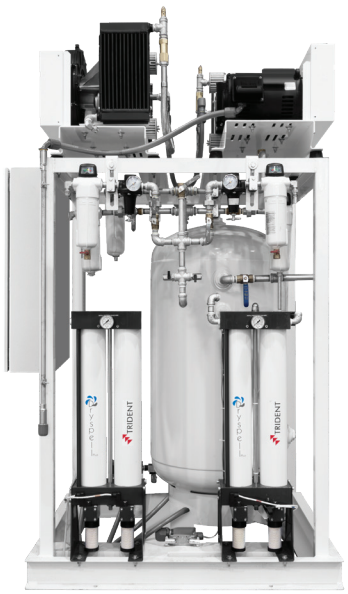
Technical Specifications

System Model Number[1]	HP	System Capacity[2]		System BTU/HR[3]	Receiver Capacity[4] (Gallons)	Noise Level (DBA)	System FLA[4] (460/3/60)	Discharge[5] NPT (in)
		120 PSIG	145 PSIG[1]					
ISO-D-02-SS	2	11.2	N/A	10,178	30-80	74	5	½"
ISO-D-03-SS	3	17	14.12	15,266	30-80	74	7	½"
ISO-D-05-SS	5	28.2	N/A	25,444	80	74	12	½"
ISO-D-07-SS	7.5	48	31	38,166	80	74	18	½"
ISO-D-10-SS	10	64	48	50,888	80	74	24	1"

[1] Specify scroll pressure rating 120 / 145.
[2] Capacities shown are based on all pumps running, specify if reserve is required.
[3] BTU/HR based on all pumps running.
[4] Receiver sizes available are 30-80G for this design.
[4] System FLA subject to change based on voltage required (If different from above).
[5] Dryer sized for all compressors running.
Normal operating conditions at a maximum ambient of 105° F. Consult Amico for higher ambient conditions.
Normal operating conditions at a standard elevation. Consult Amico for higher elevation.

Dimensions





NOTES:

- The system requires dedicated mechanical ventilation with an allowable temperature variance of 40°F to 105°F (consult factory for higher ambient temperatures).
- Inlet / discharge flex connections come standard with each system - shipped loose for field installation.
- For maintenance and ventilation of the system, Amico recommends 2 ft. (24 In) minimum clearance on all sides, and 3 ft. (36 In) in front of the control panel.
- Steel plates and vibration pads shipped loose for field installation.

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