

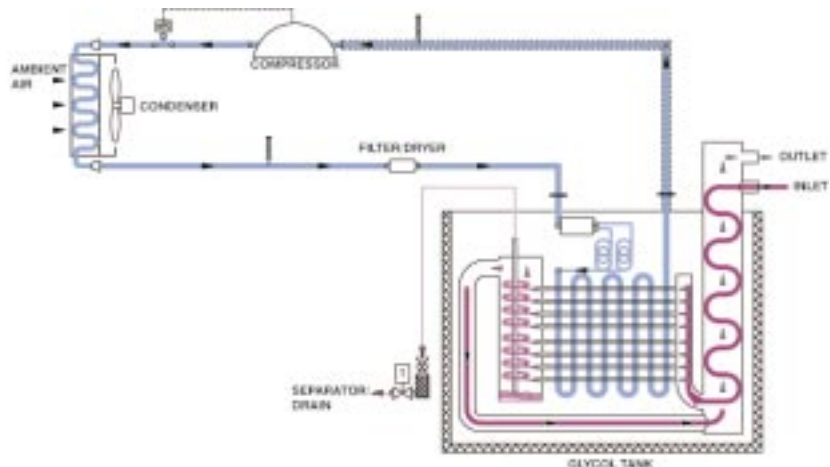
Hydrogard[®] ES Series

Energy Saver Cycling Refrigerated Dryer



ES Series dryers use a simple refrigeration system to cool a liquid solution. The cooled solution is then used to cool the compressed air. By monitoring the temperature of the liquid solution, the refrigerant compressor runs only when needed. The compressor will cycle on and off to match your compressed air demand.

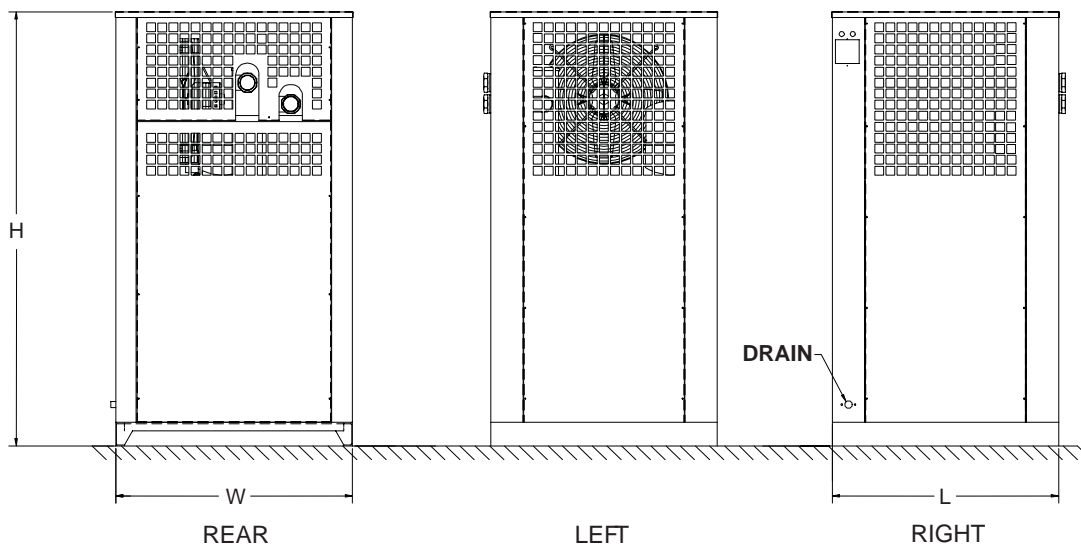
- Integrated precooler/reheater and evaporator substantially reduce the number of brazed connections and potential leaks
- Microprocessor-based Energy Management Controller offers fully automatic control of all dryer functions
- Environmentally-friendly R507 refrigerant more efficiently absorbs heat loads thereby allowing for the use of a smaller compressor, standard on 200 - 1,200 scfm and optional on 1,600 & 2,000 scfm
- Lowest refrigerant charge means this design requires only 1/3 of a typical direct expansion dryer, and 1/5 the charge of a flooded evaporator dryer
- Polyethylene tank is lightweight and durable. The tank is double-walled, polyethylene-filled with highly efficient foam to ensure maximum glycol insulation
- 99% Efficient moisture separator provides "gravity-type" separation for complete removal of all condensed moisture
- Energy Management Controller 2 (EMC²) option is an enhanced, user-friendly control system. All adjustments and display information are accessed through the finger touch membrane panel. All compressed air temperatures and pressures are digitally displayed, as well as all refrigerant temperatures and pressures, fault warnings and adjustable operating parameters, for complete system diagnostics
- Cold coalescing filter option removes condensed moisture at the coldest point in the dryer system to maximize moisture removal and prevent re-entrainment of the moisture. The coalescing filter removes oil droplets and aerosol mist down to 0.001 ppmw and particulates down to 0.01 micron with 99.9999% DOP efficiency



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Operating Conditions:

Maximum operating pressure:	225 psig (15.5 barg)
Maximum inlet air temperature:	120°F (49°C)
Minimum inlet air temperature:	40°F (4°C)
Maximum ambient air temperature:	120°F (49°C)
Minimum ambient air temperature:	40°F (4°C)
Electrical requirements:	460/3/60 (consult factory for other requirements)
Standards:	UL/cUL listed



Model	Capacity ¹ scfm (Nm ³ /min)	Dimensions inches (cm)			Inlet/Outlet Connections (inches NPT)	Drain Connection (inches NPT)	Cooling Air (cfm)	Pressure Drop (psid)	Compressor (hp)	Average Unit kW ² RLA	Approx. Shipping Weight lbs (kg)	
		H	L	W								
ES200	200 (5.7)	73.75 (187)	40.25 (102)	38.5 (98)	2	¼	1,800	3.1	2	5.4	1.9	1,040 (463)
ES300	300 (8.5)	73.75 (187)	40.25 (102)	38.5 (98)	2	¼	1,800	4.8	2½	7.5	2.3	1,067 (478)
ES400	400 (11.3)	73.75 (187)	40.25 (102)	38.5 (98)	2½	¼	2,200	4.1	2¾	7.9	3.0	1,101 (493)
ES500	500 (14.2)	73.75 (187)	40.25 (102)	38.5 (98)	2½	¼	2,375	5.0	3	8.6	3.6	1,114 (538)
ES600	600 (17.0)	73.75 (187)	40.25 (102)	38.5 (98)	2½	¼	2,200	4.1	3½	9.3	4.3	1,146 (564)
ES800	800 (22.7)	73.75 (187)	71.25 (181)	38.5 (98)	3	¼	2,830	3.9	4½	9.8	5.2	1,981 (896)
ES1000	1000 (28.3)	73.75 (187)	71.25 (181)	38.5 (98)	3	¼	2,800	4.6	5½	11.9	5.9	2,107 (953)
ES1200	1200 (34.0)	73.75 (187)	71.25 (181)	38.5 (98)	3	¼	2,800	4.9	6	13.1	7.1	2,223 (1006)
ES1600	1600 (45.3)	47.25 (120)	91.50 (232)	60.0 (152)	Consult Factory		4,200	CF	9	18.8	7.8	Consult Factory
ES2000	2000 (56.7)	47.25 (120)	91.50 (232)	60.0 (152)	Consult Factory		5,070	CF	12½	22.9	10.1	Consult Factory

¹ Performance data obtained in accordance with CAGI Standard No. ADF 100 "Refrigerated Compressed Air Dryers - Methods for Testing and Rating." Rating conditions are 100°F (37.8°C) inlet temperature, 100 psig (6.9 barg) inlet pressure, 100% relative humidity, 100°F (37.8°C) ambient temperature and 5 psi (0.35 bar) pressure drop

² Unit kW is shown for an air-cooled unit.
CF - Consult Factory

ISO9001



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