

Drystar 80 Pump and Booster Package



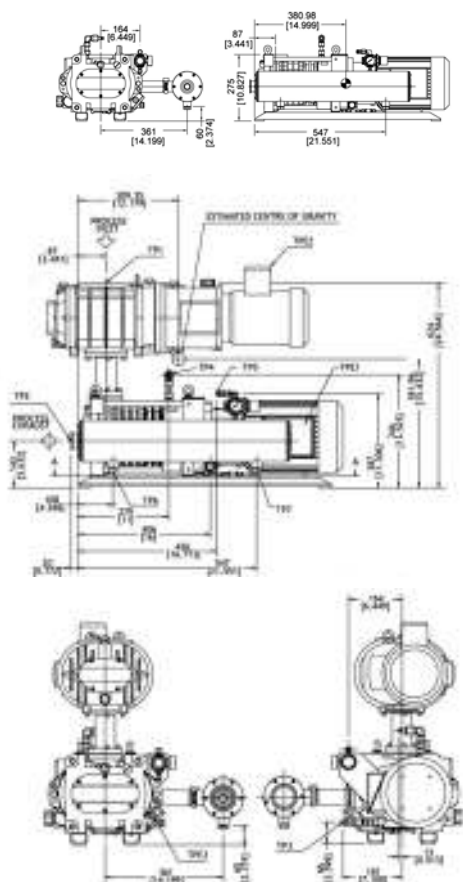
Edwards DRYSTAR 80 dry vacuum pump is configured for ease of installation and commissioning while providing a clean, robust and cost effective alternative to traditional oil-sealed pumps.

The DRYSTAR 80 is designed to handle large volumes of condensable vapours and particulate loads to provide a consistent pumping performance, minimal service intervention and low cost of ownership. The use of dry pumping technology and unique seal design will eliminate contamination throughout the vacuum process making the DRYSTAR 80 suitable for a range of applications and environments.

Features & Benefits

- Extended periods between user intervention to achieve maximum uptime
- No exhaust filters to service offering lower consumable cost and inventory
- Available in hydrocarbon or PFPE fluid (for oxygen) versions making it suitable for a wide range of applications and environments
- Continuous pumping from atmosphere
- Consistent performance in demanding applications

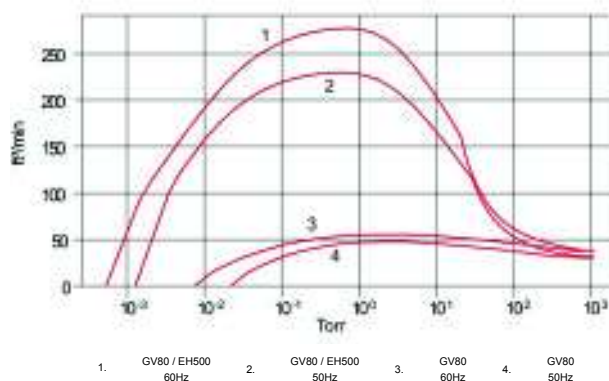
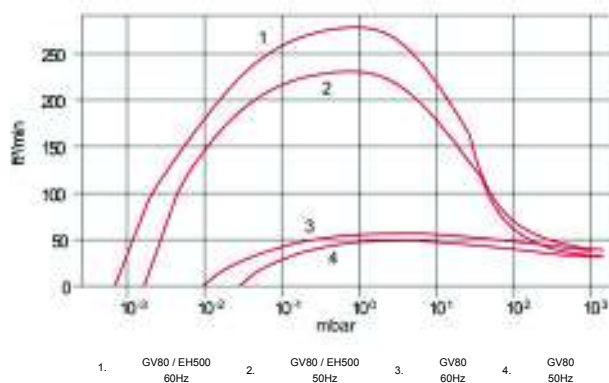
Dimensions



Applications

- Vacuum metallurgy processes
- Heat treatment carburisation
- Thin film coating technologies
- Pharmaceutical freeze drying
- Refrigeration and air conditioning system evacuation, drying, and backfilling

Performance Curves



Technical Data

	Drystar 80	Drystar 80/EH500
Peak Pumping Speed 50 Hz	80 m ³ /h ⁻¹ (47 cfm)	390 m ³ /h ⁻¹ (230 cfm)
Peak Pumping Speed 60 Hz	94 m ³ /h ⁻¹ (56 cfm)	471 m ³ /h ⁻¹ (277 cfm)
Ultimate Pressure	<3x10 ⁻² mbar (<2x10 ⁻² Torr)	<3x10 ⁻³ mbar (<2x10 ⁻³ Torr)
Power @ ultimate pressure	3.6 kW (4.8 hp)	4.3 kW (5.6 hp)
Power @ peak pumping load	5.8 kW (7.8 hp)	6.7 kW (9.0 hp)
Electrical supply	200-230V 3Æ 50/60Hz or 380-460V 3Æ 50/60Hz	200-230V 3Æ 50/60Hz or 380-460V 3Æ 50/60Hz
Inlet connection	ISO40	ISO100
Outlet connection	NW40	NW40
Cooling method	Water	Water/Air
Cooling Water flow rate	1 lmin ⁻¹ (0.26 galmin ⁻¹)	1 lmin ⁻¹ (0.26 galmin ⁻¹)
Max cooling Water supply pressure	8 bar (116 psig)	8 bar (116 psig)
Cooling Water DP across pump	2.1 bar (30 psig)	2.1 bar (30 psig)
Cooling Water temp	5-35 °C (41-95 °F)	5-35 °C (41-95 °F)
Cooling Water inlet	½" Quick connect coupling	½" Quick connect coupling
Cooling Water outlet	½" Quick connect plug	½" Quick connect plug
Purge gas pressure	0.5 bar (6-8 psig)	0.5 bar (6-8 psig)
Purge gas light duty	15 slm	15 slm
Purge gas connection	¼" Quick connect coupling	¼" Quick connect coupling
Weight	145 kg (320 lbs)	220 kg (485 lbs)
Noise (with exhaust silencer)	<78 dB(A)	<78 dB(A)
Exhaust back pressure	1.3 bar (18 psig)	1.3 bar (18 psig)
Lubrication volume	0.4 l (0.1 gal)	1.4 l (0.4 gal)
Hydrocarbon lubrication	SHC629	SHC629 / Ultragrade 20
PFPE lubrication	YVAC 25/6	YVAC 25/6 / YVAC 16/6

Ordering Information

Product Description	Order No.
DRYSTAR 80 SSP & Silencer 380-415V 50Hz	NR8030000
DRYSTAR 80 SSP & Silencer 230/460V 60 Hz	NR8031000
DRYSTAR 80 SSP & Silencer 380V 60 Hz	NR8032000
DRYSTAR 80 SSP & Silencer 200V 50 Hz	NR8033000
DRYSTAR 80 SSP & Silencer 200V 60 Hz	NR8034000
DRYSTAR 80 PFPE SSP & Silencer 380-415V 50Hz	NR8035000
DRYSTAR 80 PFPE SSP & Silencer 230/460V 60 Hz	NR8036000
DRYSTAR 80 PFPE SSP & Silencer 380V 60 Hz	NR8037000
DRYSTAR 80 PFPE SSP & Silencer 200V 50 Hz	NR8038000
DRYSTAR 80 PFPE SSP & Silencer 200V 60 Hz	NR8039000
DRYSTAR 80/EH500 SSP & Silencer 380-415V 50Hz	NR041000
DRYSTAR 80/EH500 SSP & Silencer 230/460V 60 Hz	NR042000
DRYSTAR 80/EH500 SSP & Silencer 380V 60 Hz	NR043000
DRYSTAR 80/EH500 SSP & Silencer 200V 50 Hz	NR044000
DRYSTAR 80/EH500 SSP & Silencer 200V 60 Hz	NR045000
DRYSTAR 80/EH500 PFPE SSP & Silencer 380-415V 50Hz	NR046000
DRYSTAR 80/EH500 PFPE SSP & Silencer 230/460V 60 Hz	NR047000
DRYSTAR 80/EH500 PFPE SSP & Silencer 380V 60 Hz	NR048000
DRYSTAR 80/EH500 PFPE SSP & Silencer 200V 50 Hz	NR049000
DRYSTAR 80/EH500 PFPE SSP & Silencer 200V 60 Hz	NR050000
DRYSTAR 80 SSP (24VAC Solenoid) Silencer Wall Mount MCM 208V 60 Hz	NR29W000
DRYSTAR 80/EH500 SSP (24vac Solenoid) Silencer Wall Mount MCM 208V 60 Hz	NR29X000
DRYSTAR 80F (PFPE) SSP (24vac Solenoid) Silencer Wall Mount MCM 208V 60 Hz	NR29Y000
DRYSTAR 80/EH500F (PFPE) SSP (24vac Solenoid) Silencer Wall Mount MCM 208V 60 Hz	NR29Z000
DRYSTAR 80 SSP (24VAC Solenoid) Silencer Wall Mount MCM 230V 60 Hz	NR2A0000
DRYSTAR 80/EH500 SSP (24vac Solenoid) Silencer Wall Mount MCM 230V 60 Hz	NR2A1000
DRYSTAR 80F (PFPE) SSP (24vac Solenoid) Silencer Wall Mount MCM 230V 60 Hz	NR2A2000
DRYSTAR 80/EH500F (PFPE) SSP (24vac Solenoid) Silencer Wall Mount MCM 230V 60 Hz	NR2A3000
DRYSTAR 80 SSP (24VAC Solenoid) Silencer Wall Mount MCM 460V 60 Hz	NR2A4000
DRYSTAR 80/EH500 SSP (24vac Solenoid) Silencer Wall Mount MCM 460V 60 Hz	NR2A5000
DRYSTAR 80F (PFPE) SSP (24vac Solenoid) Silencer Wall Mount MCM 460V 60 Hz	NR2A6000
DRYSTAR 80/EH500F (PFPE) SSP (24vac Solenoid) Silencer Wall Mount MCM 460V 60 Hz	NR2A7000
Accessories & Spares	Order No.
Acoustic Enclosure For GV80	A50575000
Atmospheric Shaft Seal Purge Kit	NRA640450
Exhaust Silencer	A50805020
Routine Maintenance Kit GV80	A70212825
Spares Kit Con C&O EH/QMB250/500A	A30151815