

GXS160/1750 Dry Pump



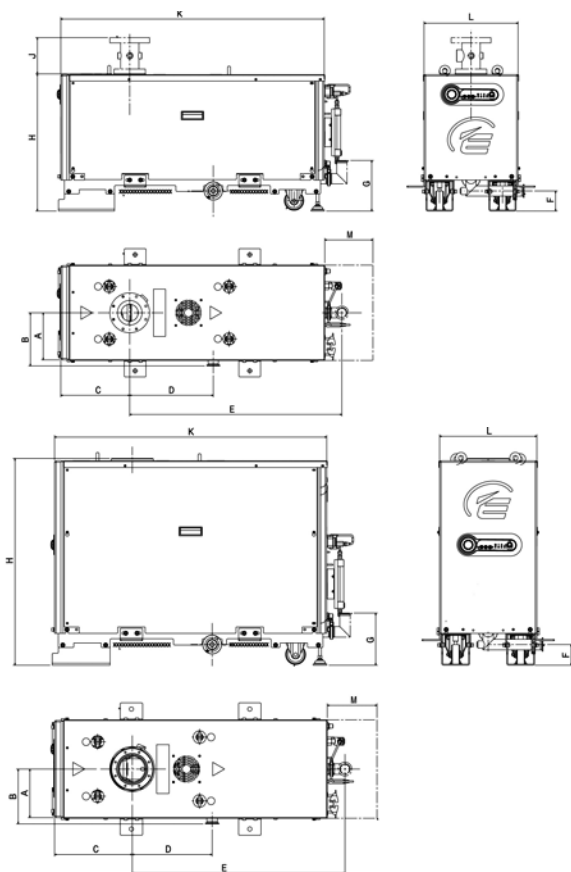
Edwards, a pioneer in dry pumping technology, has more than 90 years experience in harsh process vacuum applications, including dust and process contaminants handling, with more than 150,000 pumps installed worldwide.

The GXS industrial dry screw pump incorporates innovative, patented design features that establish a new standard in dry pumping.

Features & Benefits

- Designed for high reliability
- Adaptable to a wide range of applications
- Long service interval and easy swap out
- Low cost of ownership
- Minimum workplace and environmental impact

Dimensions



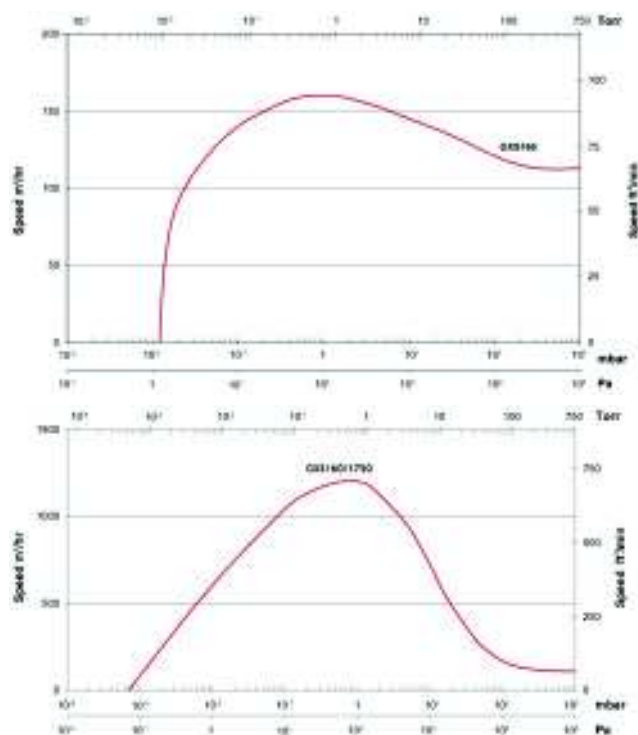
(mm)	A	B	C	D	E	F	G	H	J	K	L	M
160	195	220	285.9	346.5	879.5	83	209.4	568	150	1092	390	250
160/1750	195	220	311.6	346.5	853.8	83	209.4	829.5	-	1092	390	250

(inches)	A	B	C	D	E	F	G	H	J	K	L	M
160	7.7	8.7	11.3	13.6	34.6	3.3	8.2	22.4	5.9	43	15.4	9.8
160/1750	7.7	8.7	12.3	13.6	33.6	3.3	8.2	32.7	-	43	15.4	9.8

Applications

- Solar
- Silicon crystal growing
- Lithium Ion battery manufacture
- Freeze drying
- Pharmaceutical

Performance Curves



Technical Data

	GXS160	GXS160/1750
Peak Pumping Speed	160 m ³ h ⁻¹ (95 cfm)	1200 m ³ h ⁻¹ (706 cfm)
Ultimate Pressure with Purge	1.2 x 10 ⁻² mbar (9 x 10 ⁻³ Torr)	7 x 10 ⁻⁴ mbar (5.3 x 10 ⁻⁴ Torr)
Ultimate Pressure without Purge	7 x 10 ⁻³ mbar (5.3 x 10 ⁻³ Torr)	7 x 10 ⁻⁴ mbar (5.3 x 10 ⁻⁴ Torr)
Full Load Power @ ultimate pressure	3.8 kW (5.1 hp)	5.1 kW (6.8 hp)
@ peak pumping load	5 kW (6.7 hp)	7.4 kW (9.9 hp)
Inlet connection		
Light/med duty	ISO63	ISO100
Med duty +	ISO100	ISO100
Exhaust connection	NW40	NW40
Cooling Water		
Flow	4 lmin ⁻¹ (1.1 galmin ⁻¹)	7 lmin ⁻¹ (1.9 galmin ⁻¹)
Supply pressure (max)	6.9 bar (100 psig)	6.9 bar (100 psig)
DP across pump (min)	1 bar (14.7 psig)	1 bar (14.7 psig)
Temperature	5-40 °C (41-104 °F)	5-40 °C (41-104 °F)
Purge Gas*		
Pressure	2.5-6.9 bar (36-100 psig)	2.5-6.9 bar (36-100 psig)
Light Duty	12 slm	12 slm
Medium Duty	18-52 slm	18-52 slm
High flow purge/solvent flush supply pressure	2.5-6.9 bar (36-100 psig)	2.5-6.9 bar (36-100 psig)
Mass	305 Kg (672 lb)	475 Kg (1047 lb)
Noise	<64 dB(A)	<64 dB(A)
Operating Temperature	5-40 °C (41-104 °F)	5-40 °C (41-104 °F)
Exhaust Back Pressure (Max)	1400 mbar (20 psia)	1400 mbar (20 psia)
System IP rating	31	31
Lubrication	PFPE Drynert® 25/6	PFPE Drynert® 25/6
Volume	0.7 l (0.2 gal)	1.4 l (0.4 gal)
Monitoring & Control		
Standard	Front panel - Dashboard Serial - RS232 Ethernet Webserver	Front panel - Dashboard Serial - RS232 Ethernet Webserver
Option	Parallel I/O - MicroTim Profibus DP Pump Display Terminal (PDT) FabWorks®	Parallel I/O - MicroTim Profibus DP Pump Display Terminal (PDT) FabWorks®

* Purge Gas information

Light duty - shaft seal purge and high vac purge only
 Medium duty - Shaft seal purge, inlet purge, variable gas ballast & exhaust purge (with exhaust pressure sensor)
 Medium duty + - As Medium duty, plus High Flow Purge / Solvent Flush

Ordering Information

Applications
Industrial

Pump Mechanism
Screw

Pumps / Boosters
2 160 (7.5 kW)
5 160 (7.5 kW) / 1750 (5.5 kW)

Lubrication
PFPE (Drynet 25/6)

Ordering Code: G S 0 0 0 0 0

Electrical
Low volt 200-230 V 3Ø 50/60 Hz 2
High volt 380-460 V 3Ø 50/60 Hz 5

Cooling
TMS Standard 0

Pump purges
Light duty (SSP +HVP) 0
Medium duty (SSP + HVP + Inlet + GB + Exh PM) 3
Medium duty + High Flow Purge / Solvent Flush 4

Installation
Side Exhaust and Skids 0
Rear Exhaust and Casters 5

SSP = Shaft seal purge, HVP = High vac purge, Inlet = Inlet purge,
 GB = Gas ballast, Exh PM = Exhaust pressure monitor and purge
 All pump variants configured for Medium Duty + High Flow Purge / Solvent Flush (MD+) require optional PDT for operation

Recommended Accessory
 Pump Display Terminal (PDT)* D37280700

Optional Accessories

GXS Auxiliary gauge cable (0-10 V)	D37241017
GXS Pressure input cable (4-20 mA)	D37241019
MCM MicroTIM	D37360320
Connector kit for MCM MicroTIM**	D37422802
Profibus® Module	D39753000
Cooling water flow monitoring switch	A50783000
Purge gas flow switch options	
160 LD/MD/MD+, 250 LD/MD/MD+, 450 LD, 750 LD	A50633000
450 MD/MD+, 750 MD/MD+	A50634000
Drynert 25/6 fluid 1 kg (528 ml)	H11312021
Drynert 25/6 fluid 5 kg (2646 ml)	H11312025

* Access to full functionality for MD & MD+ pumps requires a PDT
 ** Required to build interface cable

GXS250/2600 Dry Pump



Edwards, a pioneer in dry pumping technology, launches a new generation of dry pumps for industrial applications.

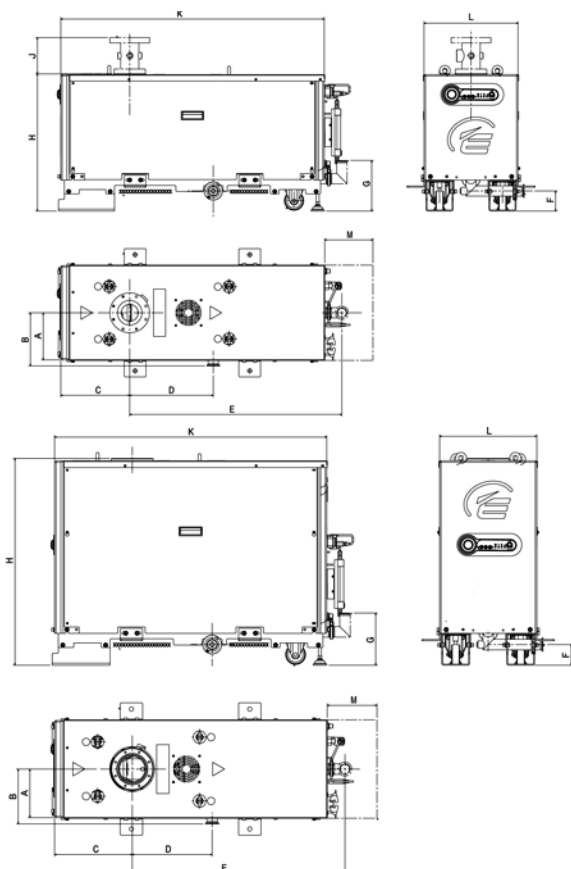
Edwards has over 90 years of experience in harsh process vacuum applications, including dust and process contaminants handling, with more than 150,000 dry pumps installed worldwide.

The GXS industrial dry screw pump incorporates innovative, patented design features that establish a new standard in dry pumping.

Features & Benefits

- Designed for high reliability
- Adaptable to a wide range of applications
- Long service interval and easy swap out
- Low cost of ownership
- Minimum workplace and environmental impact

Dimensions



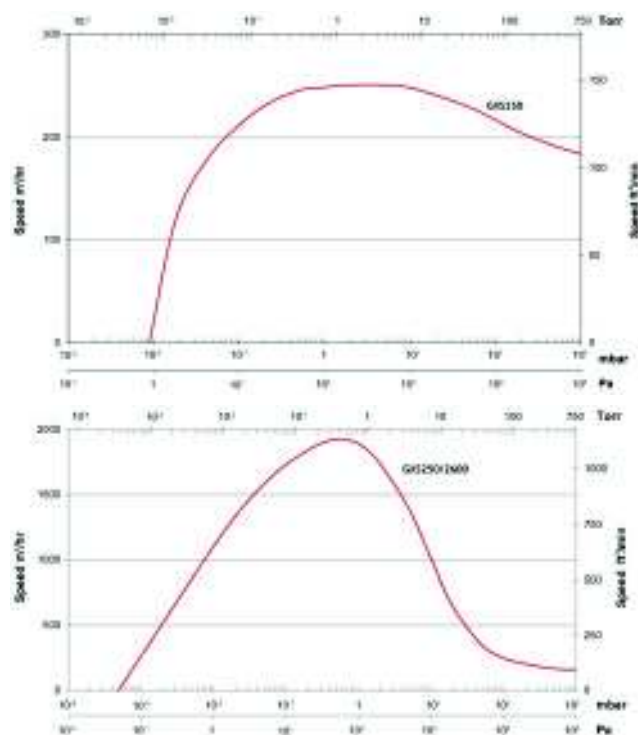
(mm)	A	B	C	D	E	F	G	H	J	K	L	M
250	195	220	285.9	346.5	879.5	83	209.4	568	150	1092	390	250
250/2600	195	220	311.6	346.5	853.8	83	209.4	829.5	-	1092	390	250

(inches)	A	B	C	D	E	F	G	H	J	K	L	M
250	7.7	8.7	11.3	13.6	34.6	3.3	8.2	22.4	5.9	43	15.4	9.8
250/2600	7.7	8.7	12.3	13.6	33.6	3.3	8.2	32.7	-	43	15.4	9.8

Applications

- Solar
- Touch display manufacture
- Lamination
- Freeze drying
- Lithium Ion battery manufacture

Performance Curves



Technical Data

	GXS250	GXS250/2600
Peak Pumping Speed	250 m ³ h ⁻¹ (148 cfm)	1900 m ³ h ⁻¹ (1118 cfm)
Ultimate Pressure with purge	9 x 10 ⁻³ mbar (6.8 x 10 ⁻³ Torr)	5 x 10 ⁻⁴ mbar (3.8 x 10 ⁻⁴ Torr)
Ultimate Pressure without purge	4 x 10 ⁻³ mbar (3 x 10 ⁻³ Torr)	5 x 10 ⁻⁴ mbar (3.8 x 10 ⁻⁴ Torr)
Full Load Power @ ultimate pressure	4 kW (5.4 hp)	5.3 kW (7.1 hp)
@ peak pumping load	9 kW (12.1 hp)	9.7 kW (13 hp)
Inlet connection		
Light/med duty	ISO63	ISO160
Med duty +	ISO100	ISO160
Exhaust connection	NW40	NW40
Cooling Water		
Flow	4 lmin ⁻¹ (1.1 galmin ⁻¹)	7 lmin ⁻¹ (1.9 galmin ⁻¹)
Supply pressure (max)	6.9 bar (100 psig)	6.9 bar (100 psig)
DP across pump (min)	1 bar (14.7 psig)	1 bar (14.7 psig)
Temperature	5-40 °C (41-104 °F)	5-40 °C (41-104 °F)
Purge Gas*		
Pressure	2.5-6.9 bar (36-100 psig)	2.5-6.9 bar (36-100 psig)
Light Duty	12 slm	12 slm
Medium Duty	18-52 slm	18-52 slm
High flow purge/solvent flush supply pressure	2.5-6.9 bar (36-100 psig)	2.5-6.9 bar (36-100 psig)
Mass	305 Kg (672 lbs)	515 Kg (1035 lbs)
Noise	<64 dB(A)	<64 dB(A)
Operating Temperature	5-40 °C (41-104 °F)	5-40 °C (41-104 °F)
Exhaust Back Pressure (Max)	1400 mbar (20 psia)	1400 mbar (20 psia)
System IP rating	31	31
Lubrication	PFPE Drynert [®] 25/6	PFPE Drynert [®] 25/6
Volume	0.7 l (0.2 gal)	1.4 l (0.4 gal)
Monitoring & Control		
Standard	Front panel - Dashboard Serial - RS232 Ethernet Webserver	Front panel - Dashboard Serial - RS232 Ethernet Webserver
Option	Parallel I/O - MicroTim Profibus DP Pump Display Terminal (PDT) FabWorks [®]	Parallel I/O - MicroTim Profibus DP Pump Display Terminal (PDT) FabWorks [®]

* Purge Gas information

Light duty - shaft seal purge and high vac purge only
 Medium duty - Shaft seal purge, inlet purge, variable gas ballast & exhaust purge (with exhaust pressure sensor)
 Medium duty + - As Medium duty, plus High Flow Purge / Solvent Flush

Ordering Information

The diagram shows a 10-digit product code: **G S [] [] [] [] [] [] [] [] [] []**. Each digit is linked to a specific configuration option:

- G**: Applications Industrial
- S**: Pump Mechanism Screw
- 7**: Pumps / Boosters 250 (7.5 kW)
- A**: Pumps / Boosters 250 (7.5 kW) / 2600 (5.5 kW)
- 1**: Lubrication PFPE (Drynert 25/6)
- 0**: Electrical Low volt 200-230 V 3Ø 50/60 Hz
- 5**: Electrical High volt 380-460 V 3Ø 50/60 Hz
- 0**: Cooling TMS Standard
- 0**: Pump purges Light duty (SSP + HVP)
- 3**: Pump purges Medium duty (SSP + HVP + Inlet + GB + Exh PM)
- 4**: Pump purges Medium duty + High Flow Purge / Solvent Flush
- 0**: Installation Side Exhaust and Skids
- 5**: Installation Rear Exhaust and Casters

SSP = Shaft seal purge, HVP = High vac purge, Inlet = Inlet purge, GB = Gas ballast, Exh PM = Exhaust pressure monitor and purge. All pump variants configured for Medium Duty + High Flow Purge / Solvent Flush (MD+) require optional PDT for operation.

Recommended Accessory	
Pump Display Terminal (PDT)*	D37280700

Optional Accessories	
GXS Auxiliary gauge cable (0-10 V)	D37241017
GXS Pressure input cable (4-20 mA)	D37241019
MCM MicroTIM	D37360320
Connector kit for MCM MicroTIM**	D37422802
Profibus [®] Module	D39753000
Cooling water flow monitoring switch	A50783000
Purge gas flow switch options	
160 LD/MD/MD+, 250 LD/MD/MD+, 450 LD, 750 LD	A50633000
450 MD/MD+, 750 MD/MD+	A50634000
Drynert 25/6 fluid 1 kg (328 ml)	H11312021
Drynert 25/6 fluid 5 kg (2646 ml)	H11312025

* Access to full functionality for MD & MD+ pumps requires a PDT
 ** Required to build interface cable

GXS450/2600/4200 Dry Pump



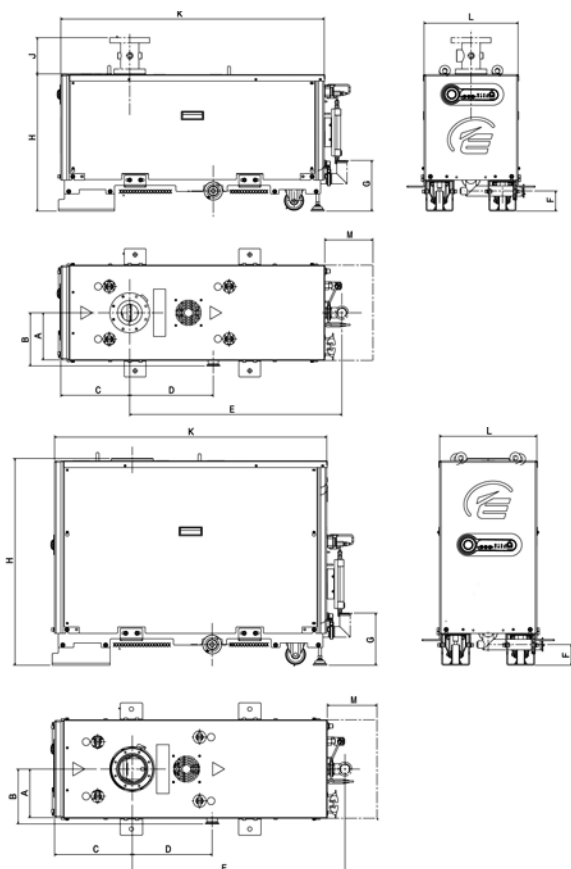
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The GXS industrial dry screw pump incorporates innovative, patented design features that establish a new standard in dry pumping.

Features & Benefits

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- Adaptable to a wide range of applications
- Long service interval and easy swap-out
- Low cost of ownership
- Minimum workplace and environmental impact

Dimensions



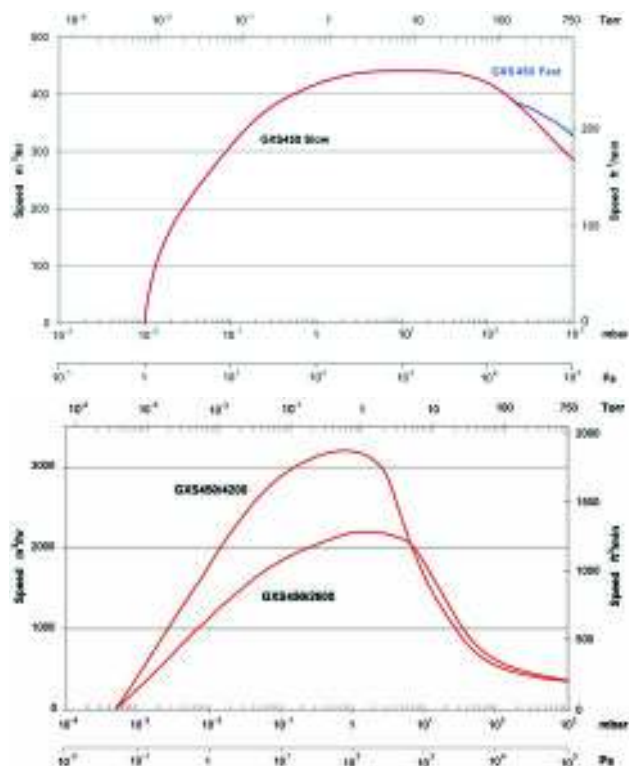
(mm)	A	B	C	D	E	F	G	H	J	K	L	M
450	258.5	283.5	394	300	871.6	83	261.4	717	150	1186	517	250
450/2600	258.5	283.5	362	332	903.8	83	261.4	1031	-	1186	517	250
450/4200	258.5	283.5	362	332	903.8	83	261.4	1031	-	1186	517	250

(inches)	A	B	C	D	E	F	G	H	J	K	L	M
450	10.2	11.2	15.5	11.8	34.3	3.3	10.3	28.2	5.9	46.7	20.4	9.8
450/2600	10.2	11.2	14.2	13.1	33.6	3.3	10.3	40.6	-	46.7	20.4	9.8
450/4200	10.2	11.2	14.2	13.1	33.6	3.3	10.3	40.6	-	46.7	20.4	9.8

Applications

- Solar
- Freeze drying
- Sterilisation
- Coating
- Metallurgy

Performance Curves



Technical Data

	GXS450	GXS450/2600	GXS450/4200
Peak Pumping Speed	450 m ³ h ⁻¹ (265 cfm)	2200 m ³ h ⁻¹ (1295 cfm)	3026 m ³ h ⁻¹ (1781 cfm)
Ultimate Pressure	1 x 10 ⁻² mbar	5.4 x 10 ⁻⁴ mbar	5.4 x 10 ⁻⁴ mbar
with purge	(7.5 x 10 ⁻³ Torr)	(3.8 x 10 ⁻⁴ Torr)	(3.8 x 10 ⁻⁴ Torr)
Ultimate Pressure	5 x 10 ⁻³ mbar	5 x 10 ⁻⁴ mbar	5 x 10 ⁻⁴ mbar
without purge	(3.8 x 10 ⁻³ Torr)	(3.8 x 10 ⁻⁴ Torr)	(3.8 x 10 ⁻⁴ Torr)
Full Load Power			
@ ultimate pressure	7.2 kW (9.6 hp)	8.8 kW (11.8 hp)	9.4 kW (12.6 hp)
@ peak pumping load	17.3 kW (23.2 hp)	20 kW (26.8 hp)	21.1 kW (28.3 hp)
Cooling water flow @ min DP	6 lmin ⁻¹ (1.6 galmin ⁻¹)	12 lmin ⁻¹ (3.2 galmin ⁻¹)	12 lmin ⁻¹ (3.2 galmin ⁻¹)
Cooling water DP across pump	1 barg (15 psig)	1.5 barg (22 psig)	1.5 barg (22 psig)
Inlet connection	ISO100	ISO160	ISO160
Exhaust connection	NW50	NW50	NW50
Mass	640 Kg (1411 lbs)	860 Kg (1996 lbs)	868 Kg (1914 lbs)
Lubrication volume	1.8 l (0.5 gal)	2.5 l (0.7 gal)	3.6 l (1.0 gal)

Cooling Water supply pressure (max)	6.9 bar (100 psig)
Cooling Water temperature	5-40 °C (41-104 °F)
Purge gas - pressure*	2.5-6.9 bar (36-100 psig)
Purge gas – light duty*	12 slm
Purge gas – medium duty*	18-146 slm
High flow purge/solvent flush supply pressure	2.5-6.9 bar (36-100 psig)
Noise	<64 dB(A)
Operating Temperature	5-40 °C (41-104 °F)
Exhaust back pressure (max)	1400 mbar (20 psia)
IP rating	31
Lubrication	PFPE Drynert [®] 25/6
Monitoring & Control	
Standard	Front panel - Dashboard Serial - RS232 Ethernet Webserver
Option	Parallel – MCM MicroTim Profibus DP Pump Display Terminal (PDT) FabWorks [®]

* Purge Gas information

Light duty - shaft seal purge and high vac purge only
 Medium duty - Shaft seal purge, inlet purge, variable gas ballast & exhaust purge (with exhaust pressure sensor)
 Medium duty + - As Medium duty, plus High Flow Purge / Solvent Flush

Ordering Information

Applications
Industrial

Pump Mechanism
Screw

Pumps / Boosters
 D 450 (11 kW)
 F 450 (11 kW) / 2600 (7.5 kW)
 G 450 (11 kW) / 4200 (7.5 kW)

Lubrication
PFPE (Drynert 25/6)

Ordering Code: G S [] [] [] [] [] [] [] [] [] []

Electrical
 Low volt 200-230 V 3Ø 50/60 Hz 2
 High volt 380-460 V 3Ø 50/60 Hz 5

Cooling
TWS Standard 0

Pump purges
 Light duty (SSP + HVP) 0
 Medium duty (SSP + HVP + Inlet + GB + Exh PM) 3
 Medium duty + High Flow Purge / Solvent Flush 4

Installation
 Side Exhaust and Skids 0
 Rear Exhaust and Casters 5

SSP = Shaft seal purge, HVP = High vac purge, Inlet = Inlet purge, GB = Gas ballast, Exh PM = Exhaust pressure monitor and purge
 Medium Duty (MD) variants require optional PDT for operation
 All pump variants configured for Medium Duty + High Flow Purge / Solvent Flush (MD+) require optional PDT for operation

Recommended Accessory
 Pump Display Terminal (PDT)* D37280700

Optional Accessories

GXS Auxilliary gauge cable (0-10 V)	D37241017
GXS Pressure input cable (4-20 mA)	D37241019
MCM MicroTIM	D37360320
Connector kit for MCM MicroTIM**	D37422802
Profibus [®] Module	D39753000
Cooling water flow monitoring switch	A50783000
Purge gas flow switch options	
160 LD/MD/MD+, 750 LD/MD/MD+, 450 LD, 750 LD	A50633000
450 MD/MD+, 750 MD/MD+	A50634000
Drynert 25/6 fluid 1 kg (528 ml)	H11312021
Drynert 25/6 fluid 5 kg (2646 ml)	H11312025

* Access to full functionality for MD & MD+ pumps requires a PDT
 ** Required to build interface cable

GXS750/2600/4200 Dry Pump



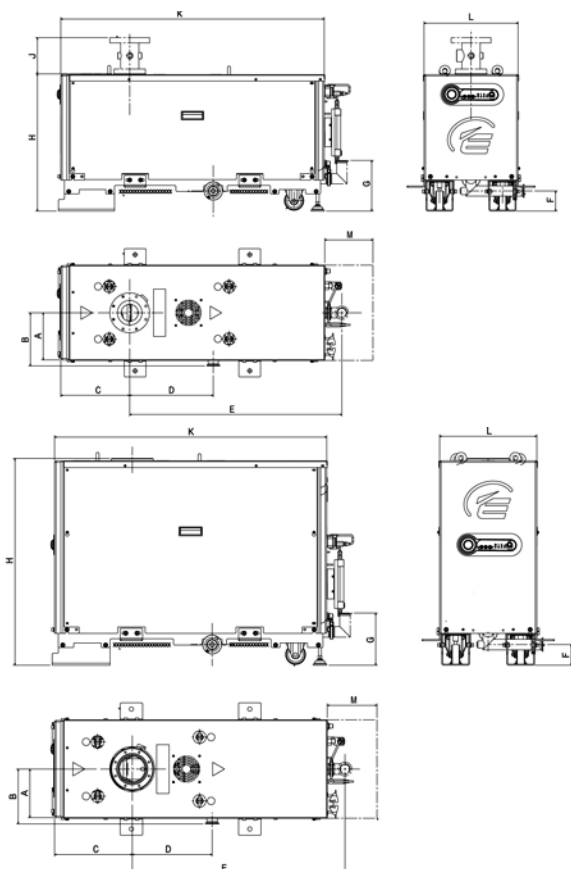
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Features & Benefits

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- Adaptable to a wide range of applications
- Long service interval and easy swap-out
- Low cost of ownership
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Dimensions



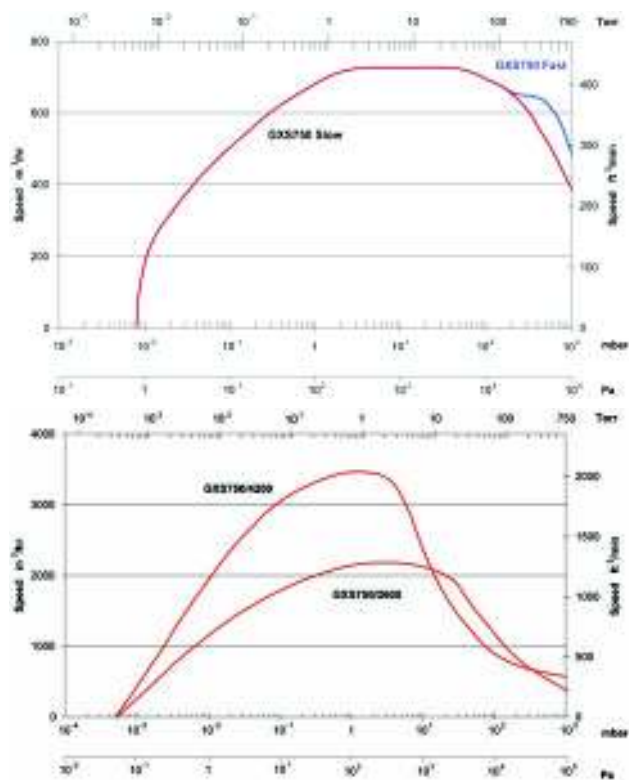
(mm)	A	B	C	D	E	F	G	H	J	K	L	M
750	258.5	283.5	576	413	1134	83	261.4	717	150	1622	517	250
750/2600	258.5	283.5	657	332	1053	83	261.4	1031	-	1622	517	250
750/4200	258.5	283.5	657	332	1053	83	261.4	1031	-	1622	517	250

(inches)	A	B	C	D	E	F	G	H	J	K	L	M
750	10.2	11.2	15.5	11.8	34.3	3.8	10.3	28.2	5.9	46.7	20.4	9.8
750/2600	10.2	11.2	25.9	13.1	41.5	3.8	10.3	40.6	-	63.9	20.4	9.8
750/4200	10.2	11.2	25.9	13.1	41.5	3.8	10.3	40.6	-	63.9	20.4	9.8

Applications

- Solar
- Space simulation
- Freeze drying
- Sterilisation
- Coating

Performance Curves



Technical Data

	GXS750	GXS750/2600	GXS750/4200
Peak Pumping Speed	740 m ³ h ⁻¹ (436 cfm)	2300 m ³ h ⁻¹ (1354 cfm)	3450 m ³ h ⁻¹ (2031 cfm)
Ultimate Pressure	8 x 10 ⁻³ mbar	5 x 10 ⁻⁴ mbar	5 x 10 ⁻⁴ mbar
with purge	(6 x 10 ⁻³ Torr)	(3.8 x 10 ⁻⁴ Torr)	(3.8 x 10 ⁻⁴ Torr)
Ultimate Pressure	3 x 10 ⁻³ mbar	5 x 10 ⁻⁴ mbar	5 x 10 ⁻⁴ mbar
without purge	(2.3 x 10 ⁻³ Torr)	(3.8 x 10 ⁻⁴ Torr)	(3.8 x 10 ⁻⁴ Torr)
Full Load Power			
@ ultimate pressure	10 kW (13.4 hp)	11.1 kW (14.9 hp)	11.5 kW (15.4 hp)
@ peak pumping load	37 kW (49.6 hp)	40 kW (53.6 hp)	40 kW (53.6 hp)
Cooling Water flow @ min DP	10 lmin ⁻¹ (2.6 galmin ⁻¹)	12 lmin ⁻¹ (3.2 galmin ⁻¹)	12 lmin ⁻¹ (3.2 galmin ⁻¹)
Cooling Water DP across pump	2 bar (29 psig)	2.5 bar (36 psig)	2.5 bar (36 psig)
Inlet connection	ISO100	ISO160	ISO160
Exhaust connection	NW50	NW50	NW50
Mass	640 Kg (1411 lb)	908 Kg (2002 lb)	953 Kg (2101 lb)
Lubrication volume	2.4 l (0.6 gal)	3.1 l (0.8 gal)	4.2 l (1.1 gal)
Cooling Water supply pressure (max)		6.9 bar (100 psig)	
Cooling Water temperature			
High volts		5-40 °C (41-104 °F)	
Low Volts		5-30 °C (41-86 °F)	
Purge gas - pressure*		2.5-6.9 bar (36-100 psig)	
Purge gas – light duty*		12 slm	
Purge gas – medium duty*		18-146 slm	
High flow purge/solvent flush supply pressure		2.5-6.9 bar (36-100 psig)	
Noise		<70B(A)	
Operating Temperature		5-40 °C (41-104 °F)	
Exhaust back pressure (max)		1400 mbar (20 psia)	
IP rating – standard		31	
Lubrication		PFPE Drynert [®] 25/6	
Monitoring & Control			
Standard		Front panel - Dashboard Serial - RS232 Ethernet Webserver	
Option		Parallel – MCM MicroTim Profibus DP Pump Display Terminal (PDT) FabWorks [®]	

* Purge Gas information
 Light duty - shaft seal purge and high vac purge only
 Medium duty - Shaft seal purge, inlet purge, variable gas ballast & exhaust purge (with exhaust pressure sensor)
 Medium duty + - As Medium duty, plus High Flow Purge / Solvent Flush

Ordering Information

Applications
Industrial

Pump Mechanism
Screw

Pumps / Boosters
L 750 (22 kW)
N 750 (22 kW) / 2600 (7.5 kW)
P 750 (22 kW) / 4200 (7.5 kW)

Lubrication
PFPE (Drynert 25/6)

G	S			0			0	0	0	0
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Electrical
 Low volt 200-230 V 3Ø 50/60 Hz 2
 High volt 380-460 V 3Ø 50/60 Hz 5

Cooling
TMS Standard 0

Pump purges
 Light duty (SSP + HVP) 0
 Medium duty (SSP + HVP + Inlet + GB + Exh PM) 3
 Medium duty + High Flow Purge / Solvent Flush 4

Installation
 Side Exhaust and Skids 0
 Rear Exhaust and Casters 5

SSP = Shaft seal purge, HVP = High vac purge, Inlet = Inlet purge,
 GB = Gas ballast, Exh PM = Exhaust pressure monitor and purge
 Medium Duty (MD) variants require optional PDT for operation
 All pump variants configured for Medium Duty + High Flow Purge / Solvent Flush (MD+) require optional PDT for operation

Recommended Accessory	
Pump Display Terminal (PDT)*	D37280700
Optional Accessories	
GXS Auxiliary gauge cable (0-10 V)	D37241017
GXS Pressure input cable (4-20 mA)	D37241019
MCM MicroTIM	D37360320
Connector kit for MCM MicroTIM**	D37422802
Profibus [®] Module	D39753000
Cooling water flow monitoring switch	A50783000
Purge gas flow switch options	
160 LD/MD/MD+, 250 LD/MD/MD+, 450 LD, 750 LD	A50633000
450 MD/MD+, 750 MD/MD+	A50634000
Drynert 25/6 fluid 1 kg (528 ml)	H11312021
Drynert 25/6 fluid 5 kg (2646 ml)	H11312025

* Access to full functionality for MD & MD+ pumps requires a PDT
 ** Required to build interface cable