# MB/MV Series Vertically Oriented Booster Combinations

# 1700 Series High Capacity Mechanical Booster Pump Combinations



#### Overview

Edwards multi-stage pumping systems, backed by over a century of in-depth applications knowledge and technical experience.

These compact, efficient pumping systems feature a Stokes microvac pump and rugged, proven Stokes 6" Series boosters or the Edwards EH series with patented hydrokinetic drive. MB series configurations are comprised of the Stokes 412J piston pumps coupled with a model 607 mechanical booster. The configuration has the ability to start at atmospheric pressure without the need for a pressure switch, packages are offered as a cost-effective alternative for low to medium range capacity requirement.

The MV Series Mechanical Booster Pump Packages comprises of either the Stokes 212J or 412J rotary piston pump. Each can be directly coupled with a range of mechanical booster pumps. The range includes Edwards EH series offering the patented Hydrokinetic Drive or the full range of Stokes 6" series. All are vertical gas flow orientation for a compact space saving design. The MV Series offers a broad selection of configurations which enables the flexibility to mix and match the complete range of Stokes Microvac accessories along with various electrical control options. This enables the user to customize the pumping package to meet their application requirements.



#### Overview

Whether you need to increase the capacity of your existing system or achieve peak performance for a new installation; Edwards makes taking advantage of the latest technology easy. These field-proven pumping systems are the workhorse of countless industrial and large chamber applications. Each Stokes 1700 series mechanical booster combinations includes a Stokes microvac backing pump and a belt driven, Stoke 6" series mechanical booster pump horizontal flow. In harsh applications where chemical or particulate contamination is present, process isolation boosters are available as an option. Controls for Stokes 1700 series mechanical booster combinations include a pressure switch, motor starters, fuses and overload.

The Stokes 1700 series combinations deliver the high capacity needed to achieve faster pump-downs. Most importantly, these systems achieve the task more cost effectively than larger single stage pumps. Depending on the specific application, they can improve blank-off by a factor of ten over large, single stage pumps. Pumping capacities range from 1300 to 7880 ft<sup>3</sup>min<sup>-1</sup>.

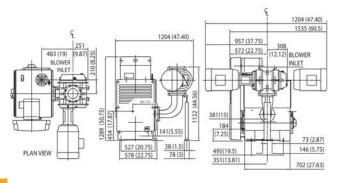
# Sto es 412

# ulti Stage Pumping S stem



Stokes MB Multi-stage pumping systems are available in two options, consisting of a Microvac piston pump and a Stokes 607 mechanical booster pump. The compact direct mounted packages provide high performance pumping from atmosphere. The MB systems are ideal for high cycling arduous applications.

#### Dimensions

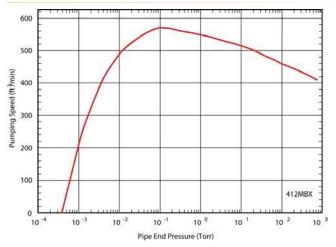


#### Technical Data

Blower displacement (swept volume) (AVS) Pump displacement (swept volume) (AVS) Blower motor size Microvac motor size Blower motor Microvac motor Inlet connection Exhaust connection Microvac water inlet/outlet connection Recommended cooling flow @ 30 °C/85 °F Booster oil capacity Microvac oil capacity Booster recommended oil Microvac recommended oil Dimensions (L x W x H) Height to inlet Weight

$1040 \text{ m}^{3} \text{ h}^{-1} / 612 \text{ ft}^{3} \text{ min}^{-1}$
510 m <sup>3</sup> h <sup>-1</sup> / 300 ft <sup>3</sup> min <sup>-1</sup>
15 kW / 20 hp
7.5 kW / 10 hp
1800 rpm
1800 rpm
6 inch ASA/ANSI flange
3 inch ASA/ANSI flange or 3 inch NPT
1/2 inch NPT
7.6 lmin <sup>-1</sup> / 1 US galmin <sup>-1</sup>
4.2 litre / 22 US gal
46 litre / 12 US gal
V lube H
V lube F
973 x 1022 x 1365 mm
47 x 55.69 x 51.75 inch
868 mm / 34.19 inch
1202 kg / 2650 lbs

#### Performance Curves



Product escription	rder o.
412MBX Multi-stage Pumping System 230/460V, 3Ø, 60 Hz with 230/460V Coil	900412072
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit         607552002	
Replacement parts kit for 412H pump	429638012

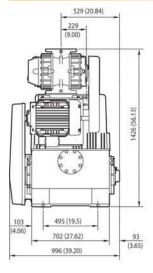
# ulti Stage Pumping S stem

Stokes MB Multi-stage pumping systems are available in two options, consisting of a Microvac piston pump and a Stokes 607 mechanical booster pump. The compact direct mounted packages provide high performance pumping from atmosphere. The MB systems are ideal for high cycling arduous applications. The 612MB Multi-stage pumping systems incorporate an integral bypass valve which offers increased speed at atmospheric pressure.



#### Dimensions

Sto es 612



#### **Technical Data**

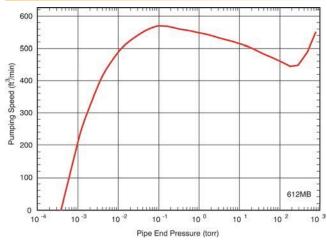
Blower displacement (swept volume) (AVS)	1040 m <sup>3</sup> -1
Pump displacement (swept volume) (AVS)	510 m <sup>3</sup> h <sup>-1</sup> /
Pressure switch re uired	No
Blower motor size	15 kW / 20
Motor	1800 rpm
Inlet connection	6 inch ASA
Exhaust connection	4 inch NPT
Microvac water inlet/outlet connection	½ inch NPT
Recommended cooling flow @ 30 °C/85 °F	7.6 lmin <sup>-1</sup> /
Booster oil capacity	4.7 litre / 7
Microvac oil capacity	46 litre / 12
Booster recommended oil	V lube H
Microvac recommended oil	V lube
Dimensions (L x W x H)	1181 x 102
	47 x 55.69 x
Height to inlet	1434 mm /
Weight	1452 kg / 32

508 (20.00) 305 (12.06) EXH. EXH. EXH. EXH. 527 (20.75) 527 (20.75) 527 (20.75) 6261) 996 (39.20)

510 m <sup>3</sup> h <sup>-1</sup> / 300 ft <sup>3</sup> min <sup>-1</sup> No 15 kW / 20 hp 1800 rpm 6 inch ASA/ANSI flange
15 kW / 20 hp 1800 rpm
1800 rpm
•
6 inch ASA/ANSI flange
4 inch NPT
½ inch NPT
7.6 lmin <sup>-1</sup> / 2 US galmin <sup>-1</sup>
4.7 litre / 7 US gal
-
46 litre / 12 US gal
46 litre / 12 US gal V lube H
0
V lube H
V lube H V lube
V lube H V lube 1181 x 1022 x 1434 mm

#### 612 MB incorporates double shafted single motor

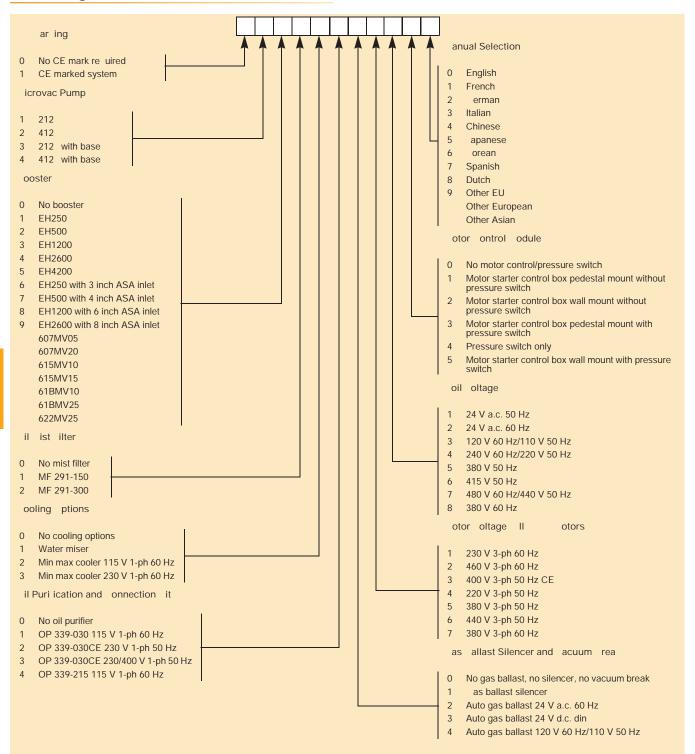
#### Performance Curves



Product escription	rder o.
612MBX Multi-stage Pumping System 230/460V, 3Ø, 60 Hz with 230/460V Coil	900612 30
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

#### il Sealed Piston Pumps and Series echanical om inations ooster

#### **Ordering Information**



 Note
 Above booster combinations are direct mount vertical flow.

 Note
 Oil mist filters and min max coolers will ship separately unless ordered with base frame.

 Note
 Oxygen service pumps are available, please contact your local Edwards representative to discuss your re uirements.

 Note
 Not applicable in CE versions.

 For other possible combinations please contact your local Edwards representative to discuss your re uirements.

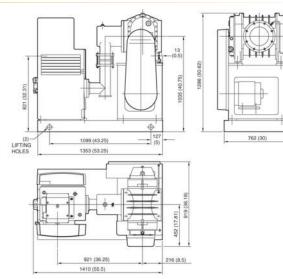
For other possible combinations, please contact your local Edwards representative to discuss your re uirements.

# Sto es 1721 echanical ooster Pump om ination

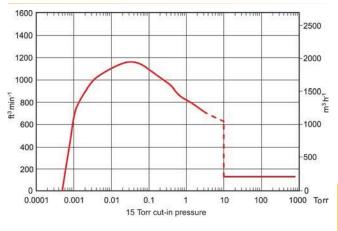
Whether you need to increase the capacity of your existing system or achieve peak performance for a new installation Edwards makes taking advantage of the latest technology easy. These field-proven pumping systems are the workhorse of countless industrial and large chamber applications. Each Stokes1700 series mechanical booster pump combination includes a Stokes Microvac backing pump and a belt driven, horizontal flow, high vacuum Stokes 6 series mechanical booster pump. In harsh applications where chemical or particulate contamination is present, process isolation boosters are available as an option. Controls for Stokes 1700 series mechanical booster pump combination include a pressure switch, motor starters, overloads, remote booster selection switch and lights for pump running and fault indication.



#### Dimensions



#### Performance Curves



#### **Technical Data**

	2 1 2 1
Booster displacement	2210 m <sup>3</sup> h <sup>-1</sup> / 1300 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	1800 rpm
Booster orientation	Horizontal
Pump displacement	$255 \text{ m}^{3} \text{h}^{-1} / 150 \text{ ft}^{3} \text{min}^{-1}$
Pressure switch re uired	es
Normal cut-in pressure	20 mbar / 10 Torr
Continuous operation pressure limit	4 mbar / 3 Torr
Booster drive	5.6 kW / 7.5 hp
Pump drive (TEFC)	5.6 kW / 7.5 hp
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	2 inch ASA/ANSI flange, 2 inch NPT
Water inlet/outlet connection	1/2 inch NPT
Recommended cooling flow @ 30°C/85 °F	5.7 Imin <sup>-1</sup> / 1.5 galmin <sup>-1</sup>
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	15 litre / 4 US gal
Inlet height	1035 mm / 40.75 inch
Footprint (L x W x H)	1419 x 919 x 1260 mm
	55.87 x 36.18 x 49.61 inch
Weight	1225 kg / 2700 lbs

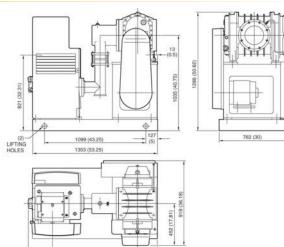
Product escription	rder o.	
1721 230/460V, 3-ph, 60Hz (230/460V Coil)	900170061	
ccessories Spares	rder o.	
Replacement parts kit	429638016	
Bearings	085019757	
Valve deck assembly	bly 607417001	
Replacement 6" booster Mseal - seal kit	607552001	
Replacement 6" booster - maintenance kit	607552002	

# Sto es 1721S echanical ooster Pump om ination



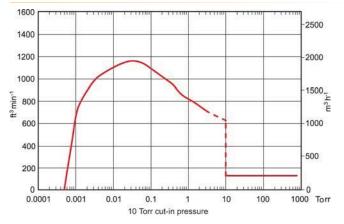
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#### Dimensions



216 (8.5)

#### **Performance Curves**



#### Technical Data

921 (36.25)

1410 (55.5)

Booster displacement	$2720 \text{ m}^{3} \text{ h}^{-1} / 1600 \text{ ft}^{3} \text{ min}^{-1}$
Booster speed	2200 rpm
Booster orientation	Horizontal
Pump displacement	255 m <sup>3</sup> - <sup>1</sup> / 150 ft <sup>3</sup> min <sup>-1</sup>
Pressure switch required	es
Normal cut-in pressure	13 mbar / 10 Torr
Continuous operation pressure limit	2.6 mbar / 2 Torr
Booster drive	7.5 kW / 10 hp
Pump drive (TEFC)	6.5 kW / 7.5 hp
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	2 inch ASA/ANSI flange, 2 inch NPT
Water inlet/outlet connection	inch NPT
Recommended cooling flow 30 C/85 F	5.7 Imin <sup>-1</sup> / 1.5 galmin <sup>-1</sup>
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	15 litre / 4 US gal
Inlet height	1035 mm / 40.75 inch
Footprint (L x W x H)	1419 x 919 x 1260 mm
	55.87 x 36.18 x 49.61 inch
Weight	1270 kg / 2800 lbs

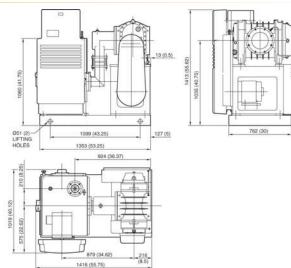
Product Description	Order No.
1721S 230/460V, 3-ph, 60Hz (230/460V Coil)	900170074
Accessories Spares	Order No.
Replacement parts kit	429638016
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

# Sto es 1722 echanical ooster Pump om ination

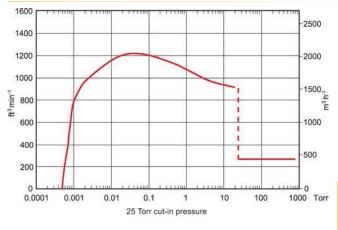
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#### Dimensions



#### Performance Curves



#### **Technical Data**

Booster displacement	2
Booster speed	1
Booster orientation	Н
Pump displacement	5
Pressure switch re uired	
Normal cut-in pressure	3
Continuous operation pressure limit	2
Booster drive	5
Pump drive (TEFC)	7
Inlet connections	8
Discharge connections	3 N
Water inlet/outlet connection	1/2
Recommended cooling flow @ 30°C/85 °F	7
Booster oil capacity (V lube H)	1
Microvac oil capacity (V lube F)	4
Inlet height	1
Footprint (L x W x H)	1
	5
Weight	1

 $2210 \text{ m}^{3} \text{h}^{-1}$  / 1300 ft<sup>3</sup> min<sup>-1</sup> 800 rpm Horizontal  $10 \text{ m}^{3} \text{ h}^{-1} / 300 \text{ ft}^{3} \text{ min}^{-1}$ es 3 mbar / 25 Torr 0 mbar / 15 Torr .6 kW / 7.5 hp .5 kW / 10 hp inch ASA/ANSI flange inch ASA/ANSI flange, 3 inch NPT √₂ inch NPT .6 lmin<sup>-1</sup> / 2 galmin<sup>-1</sup> .9 litre / 0.51 US gal 6 litre / 12 US gal 035 mm / 40.75 inch 407 x 1048 x 1438 mm 55.40 x 41.26 x 56.61 inch 1588 kg / 3500 lbs

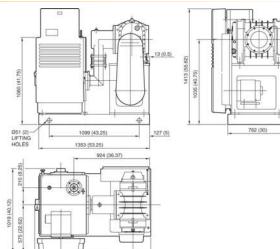
Product escription	rder o.
1722 230/460V, 3-ph, 60Hz (230/460V Coil)	900170062
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

# Sto es 1722S echanical ooster Pump om ination

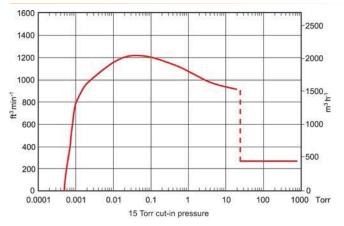


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#### Dimensions



#### Performance Curves



#### **Technical Data**

1416 (55.75

Booster displacement	2720
Booster speed	2200
Booster orientation	Hori
Pump displacement	510
Pressure switch re uired	es
Normal cut-in pressure	20 m
Continuous operation pressure limit	10.7
Booster drive	7.5 k
Pump drive (TEFC)	7.5 k
Inlet connections	8 inc
Discharge connections	3 inc NPT
Water inlet/outlet connection	½ in
Recommended cooling flow @ 30°C/85°F	7.6 l
Booster oil capacity (V lube H)	1.9 li
Microvac oil capacity (V lube F)	46 lit
Inlet height	1035
Footprint (L x W x H)	1407
	55.4
Weight	1633

 $0m^{3}h^{-1}$  / 1600 ft<sup>3</sup>min<sup>-1</sup> 0 rpm zontal  $m^{3}h^{-1}/300 ft^{3}min^{-1}$ nbar / 15 Torr mbar / 8 Torr kW / 10 hp kW / 10 hp ch ASA/ANSI flange ch ASA/ANSI flange, 3 inch hch NPT Imin<sup>-1</sup> / 2 galmin<sup>-1</sup> liter / 0.51 US gal iter / 12 US gal 5 mm / 40.75 inch 7 x 1048 x 1438 mm 10 x 41.26 x 56.61 inch 3 kg / 3600 lbs

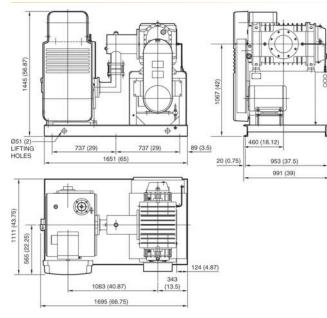
Product escription	rder o.
1722S 230/460V, 3-ph, 60Hz (230/460V Coil)	900170075
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

# Sto es 1733 echanical ooster Pump om ination

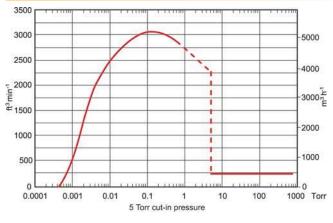
Whether you need to increase the capacity of your existing system or achieve peak performance for a new installation Edwards makes taking advantage of the latest technology easy. These field-proven pumping systems are the workhorse of countless industrial and large chamber applications. Each Stokes1700 series mechanical booster pump combination includes a Stokes Microvac backing pump and a belt driven, horizontal flow, high vacuum Stokes 6 series mechanical booster pump. In harsh applications where chemical or particulate contamination is present, process isolation boosters are available as an option. Controls for Stokes 1700 series mechanical booster pump combination include a pressure switch, motor starters, overloads, remote booster selection switch and lights for pump running and fault indication.



#### Dimensions



#### Performance Curves



#### **Technical Data**

Booster displacement	6538 m <sup>3</sup> h <sup>-1</sup> / 3840 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	3600 rpm
Booster orientation	Horizontal
Pump displacement	510 $\text{m}^{3}\text{h}^{-1}$ / 300 $\text{ft}^{3}\text{min}^{-1}$
Pressure switch re uired	es
Normal cut-in pressure	6.7 mbar / 5 Torr
Continuous operation pressure limit	0.8 mbar / 0.6 Torr
Booster drive	18.5 kW / 25 hp
Pump drive	7.5 kW / 10 hp
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	3 inch ASA/ANSI flange, 3 inch NPT
Water inlet connection	½ inch NPT (2)
Water outlet connection	1/2 inch NPT
Recommended cooling flow @ 30°C/85 °F	7.61 lmin <sup>-1</sup> / 2 galmin <sup>-1</sup>
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	46 litre / 12 US gal
Weight	1710 kg / 3770 lbs

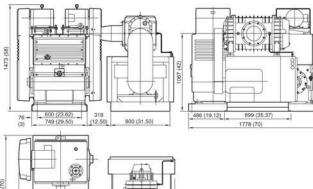
Product escription	rder o.
1733 230/460V, 3-ph, 60Hz (230/460V Coil)	900170S33
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

# Sto es 1733 echanical ooster Pump om ination

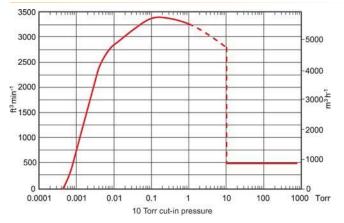


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#### Dimensions



#### Performance Curves



Page 318 778

## 187 (7.37 1111 (43.75) 1899 (74.75) 2134 (49)

#### **Technical Data**

Booster displacement	$6538 \text{ m}^{3} \text{ h}^{-1}$ / 3840 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	3600 rpm
Booster orientation	Horizontal
Pump displacement	$1020 \text{ m}^{3} \text{h}^{-1}$ / 600 ft <sup>3</sup> min <sup>-1</sup>
Pressure switch re uired	es
Normal cut-in pressure	13.3 mbar / 10 Torr
Continuous operation pressure limit	1.3 mbar / 1 Torr
Booster drive	22.5 kW / 30 hp
Pump drive	7.5 kW (x2) / 10 hp (x2)
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	3 inch ASA/ANSI flange, 3 inch NPT (x2)
Water inlet/outlet connection	½ inch NPT (x2)
Recommended cooling flow @ 30°C/85°F	7.61 lmin <sup>-1</sup> (x2) / 2 galmin <sup>-1</sup> (x2)
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	92 litre / 24 US gal
Weight	2767 kg / 6100 lbs

Product escription	rder o.
1733HC 230/460V, 3-ph, 60Hz (230/460V Coil)	900170S34
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

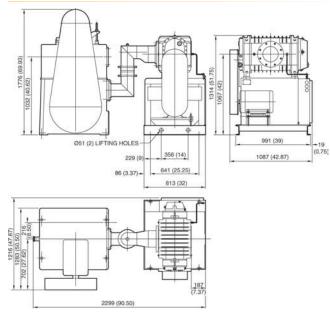
## echanical ooster Pump om ination

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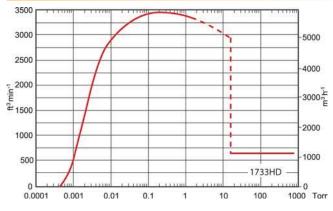


#### Dimensions

Sto es 1733



#### Performance Curves



#### **Technical Data**

Booster displacement	6538 m <sup>3</sup> h <sup>-1</sup> / 3840 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	3600 rpm
Booster orientation	Horizontal
Pump displacement	1240 m <sup>3</sup> h <sup>-1</sup> / 730 ft <sup>3</sup> min <sup>-1</sup>
Pressure switch required	es
Normal cut-in pressure	20 mbar / 15 Torr
Continuous operation pressure limit	2 mbar / 1.5 Torr
Booster drive	22.5 kW / 30 hp
Pump drive	22.5 kW / 30 hp
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	3 inch NPT
Water inlet/outlet connection	1 inch NPT
Recommended cooling flow 30 C/85 F	18.9 lmin <sup>-1</sup> / 5 galmin <sup>-1</sup>
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	76 litre / 20 US gal
Weight	3538 kg / 7800 lbs

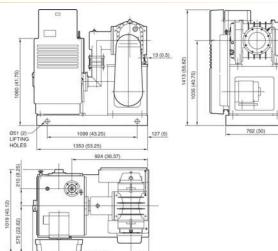
1733HD 230/460V, 3-ph, 60Hz (230/460V Coil) Accessories Spares Replacement 6" booster Mseal - seal kit Replacement 6" booster - maintenance kit	900170S35 Order No.
Replacement 6" booster Mseal - seal kit	Order No
	Order No.
Replacement 6" booster - maintenance kit	607552001
Replacement of booster - maintenance kit	607552002
Replacement oil seal	085018191
Replacement roller bearing	085033795
Roller bearing with adaptive sleeve	085033794
Valve deck stainless steel clappers	272963002
Valve deck springs	

# Sto es 1738 echanical ooster Pump om ination

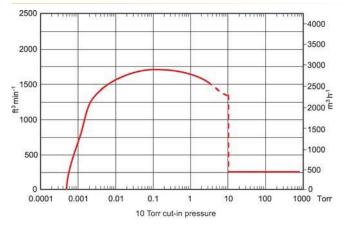


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#### Dimensions



#### Performance Curves



#### **Technical Data**

1416 (55.75

Booster displacement	3398
Booster speed	2750
Booster orientation	Hori
Pump displacement	510
Pressure switch re uired	es
Normal cut-in pressure	13 m
Continuous operation pressure limit	4 mt
Booster drive	7.5 k
Pump drive (TEFC)	7.5 k
Inlet connections	8 inc
Discharge connections	3 inc NPT
Water inlet/outlet connection	½ in
Recommended cooling flow @ 30°C/85 °F	7.6 l
Booster oil capacity (V lube H)	1.91
Microvac oil capacity (V lube F)	46 li
Inlet height	1035
Footprint (L x W x H)	1407
	55.4
Weight	1633

 $8 \text{ m}^{3} \text{h}^{-1} / 2000 \text{ ft}^{3} \text{min}^{-1}$ 0 rpm zontal  $m^{3}h^{-1}/300 ft^{3}min^{-1}$ nbar / 10 Torr bar / 3 Torr kW / 10 hp kW / 10 hp ch ASA/ANSI flange ch ASA/ANSI flange, 3 inch hch NPT Imin<sup>-1</sup> / 2 galmin<sup>-1</sup> litre / 0.51 US gal itre / 12 US gal 5 mm / 40.75 inch 7 x 1048 x 1438 mm 10 x 41.26 x 56.61 inch 3 kg / 3600 lbs

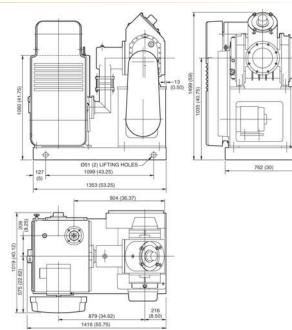
Product escription	rder o.
1738 230/460V, 3-ph, 60Hz (230/460V Coil)	900170038
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

#### om ination ooster Pump Sto es 1738 Ρ echanical

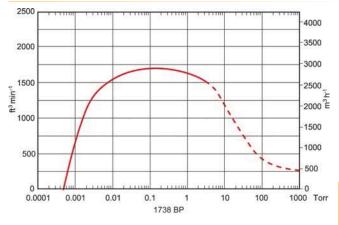
Whether you need to increase the capacity of your existing system or achieve peak performance for a new installation Edwards makes taking advantage of the latest technology easy. These field-proven pumping systems are the workhorse of countless industrial and large chamber applications. Each Stokes1700 series mechanical booster pump combination includes a Stokes Microvac backing pump and a belt driven, horizontal flow, high vacuum Stokes 6 series mechanical booster pump. In harsh applications where chemical or particulate contamination is present, process isolation boosters are available as an option. Controls for Stokes 1700 series mechanical booster pump combination include a pressure switch, motor starters, overloads, remote booster selection switch and lights for pump running and fault indication.



#### Dimensions



#### Performance Curves



#### **Technical Data**

Booster displacement	$3398 \text{ m}^{3} \text{ h}^{-1}$ / 2000 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	2750 rpm
Booster orientation	Horizontal
Pump displacement	510 m <sup>3</sup> h <sup>-1</sup> / 300 ft <sup>3</sup> min <sup>-1</sup>
Pressure switch re uired	No
Continuous operation pressure limit	4 mbar / 3 Torr
Booster drive	11 kW / 15 hp
Pump drive (TEFC)	7.5 kW / 10 hp
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	3 inch ASA/ANSI flange, 3 NPT
Water inlet/outlet connection	½ inch NPT
Recommended cooling flow @ 30°C/85 °F	7.6 lmin <sup>-1</sup> / 2 galmin <sup>-1</sup>
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	46 litre / 12 US gal
Weight	1690 kg / 3725 lbs

inch

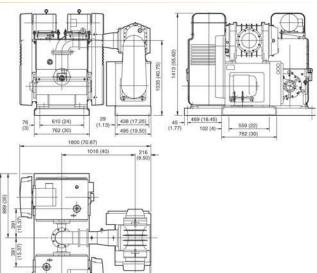
Product escription	rder o.
1738BP 230/460V, 3-ph, 60Hz (230/460V Coil)	90017038B
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

# Sto es 1738 echanical ooster Pump om ination

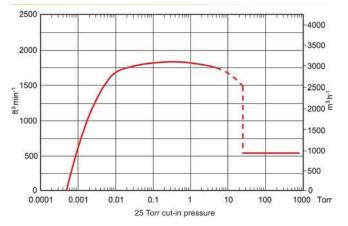


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#### Dimensions



#### Performance Curves



#### **Technical Data**

Booster displacement	$3398 \text{ m}^{3} \text{ h}^{-1}$ / 2000 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	2750 rpm
Booster orientation	Horizontal
Pump displacement	$1020 \text{ m}^{3} \text{h}^{-1} / 600 \text{ ft}^{3} \text{min}^{-1}$
Pressure switch re uired	es
Normal cut-in pressure	33 mbar / 25 Torr
Continuous operation pressure limit	6.7 mbar / 5 Torr
Booster drive	7.5 kW / 10 hp
Pump drive (TEFC)	7.5 kW (x2) / 10 hp (x2)
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	3 inch ASA/ANSI flange, 3 inch NPT (x2)
Water inlet/outelt connection	½ inch NPT (x2)
Recommended cooling flow @ 30°C/85°F	7.6 lmin <sup>-1</sup> (x2) / 2 galmin <sup>-1</sup> (x2)
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	92 litre / 24 US gal
Weight	2404 kg / 5300 lbs

## **Ordering Information**

Product escription 1738HC 230/460V, 3-ph, 60Hz (230/460V Coil)	rder o.
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly Replacement 6" booster Mseal - seal kit	607417001 607552001
Replacement 6" booster - maintenance kit	607552002

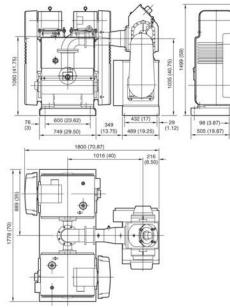
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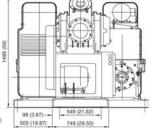
#### ooster Pump om ination Sto es 1738 echanical Ρ

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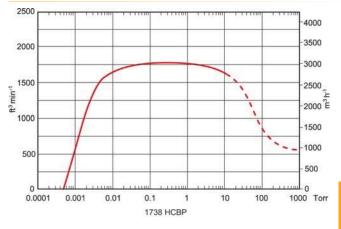


#### Dimensions





#### Performance Curves



#### **Technical Data**

Booster displacement	3398 m <sup>3</sup> h <sup>-1</sup> / 2000 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	2750 rpm
Booster orientation	Horizontal
Pump displacement	$1020 \text{ m}^{3} \text{h}^{-1}$ / 600 ft <sup>3</sup> min <sup>-1</sup>
Pressure switch re uired	No
Continuous operation pressure limit	6.7 mbar / 5 Torr
Booster drive	11.2 kW / 15 hp
Pump drive (TEFC)	7.5 kW (x2) / 10 hp (x2)
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	3 inch ASA/ANSI flange, 3 inch NPT (x2)
Water inlet/outlet connection	½ inch NPT (x2)
Recommended cooling flow @ 30°C/85°F	7.6 lmin <sup>-1</sup> (x2) / 2 galmin <sup>-1</sup> (x2)
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	92 litre / 24 US gal
Weight	2449 kg / 5400 lbs

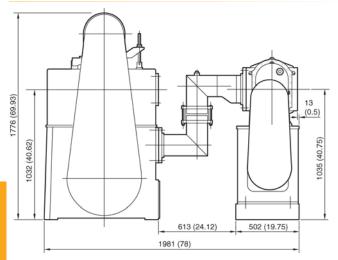
Product escription	rder o.
1738HCBP 230/460V, 3-ph, 60Hz (230/460V Coil)	90017C38B
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

# Sto es 1738 echanical ooster Pump om ination



Whether you need to increase the capacity of your existing system or achieve peak performance for a new installation Edwards makes taking advantage of the latest technology easy. These field-proven pumping systems are the workhorse of countless industrial and large chamber applications. Each Stokes1700 series mechanical booster pump combination includes a Stokes Microvac backing pump and a belt driven, horizontal flow, high vacuum Stokes 6 series mechanical booster pump. In harsh applications where chemical or particulate contamination is present, process isolation boosters are available as an option. Controls for Stokes 1700 series mechanical booster pump combination include a pressure switch, motor starters, overloads, remote booster selection switch and lights for pump running and fault indication.

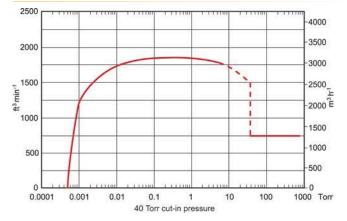
#### Dimensions



#### **Technical Data**

Booster displacement	3398 m <sup>3</sup> h <sup>-1</sup> / 2000 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	2750 rpm
Booster orientation	Horizontal
Pump displacement	1240 m <sup>3</sup> h <sup>-1</sup> / 730 ft <sup>3</sup> min <sup>-1</sup>
Pressure switch required	es
Normal cut-in pressure	53 mbar / 40 Torr
Continuous operation pressure limit	16 mbar / 12 Torr
Booster drive	11 kW / 15 hp
Pump drive (TEFC)	22.5 kW / 30 hp
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	5 inch NPT
Water inlet/outlet connection	1 inch NPT
Recommended cooling flow 30 C/85 F	18.9 lmin <sup>-1</sup> / 5 galmin <sup>-1</sup>
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	76 litre / 20 US gal
Weight	3187 kg / 7025 lbs

#### Performance Curves



Product Description	Order No.
1738HD 230/460V, 3-ph, 60Hz (230/460V Coil)	90017D038
Accessories Spares	Order No.
Replacement roller bearing	085033795
Replacement oil seal	085018191
Roller bearing with adaptive sleeve	085033794
Valve deck stainless steel clappers	272963002
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002
Valve deck springs	274172001

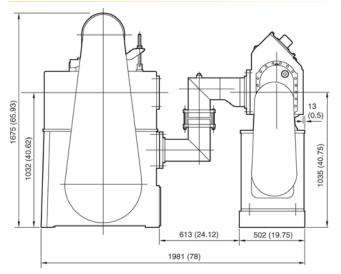
#### Sto es 1738 ooster Pump echanical om ination Ρ

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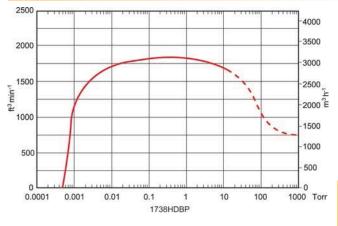
#### **Dimensions**



#### **Technical Data**

Booster displacement	$3398 \text{ m}^{3} \text{h}^{-1}$ / 2000 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	2750 rpm
Booster orientation	Horizontal
Pump displacement	1240 m <sup>3</sup> h <sup>-1</sup> / 730 ft <sup>3</sup> min <sup>-1</sup>
Pressure switch re uired	No
Continuous operation pressure limit	16 mbar / 12 Torr
Booster drive	11 kW / 15 hp
Pump drive (TEFC)	22 kW / 30 hp
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	5 inch NPT
Water inlet/outlet connection	1 inch NPT
Recommended cooling flow @ 30°C/85 °F	18.9 lmin <sup>-1</sup> / 5 galmin <sup>-1</sup>
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	76 litre / 20 US gal
Weight	3221 kg / 7100 lbs

#### Performance Curves



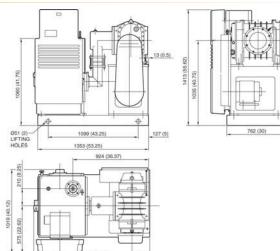
Product         escription           1738HDBP         230/460V, 3-ph, 60Hz (230/460V Coil)	rder o. 90017D38B
CCESSORIES Spares Replacement 6" booster Mseal - seal kit	rder o.
Replacement 6' booster Msear - sear kit Replacement 6'' booster - maintenance kit	607552001
Replacement oil seal	085018191
Replacement roller bearing	085033795
Roller bearing with adaptive sleeve	085033794
Valve deck stainless steel clappers	272963002
Valve deck springs	274172001

# Sto es 1739 echanical ooster Pump om ination

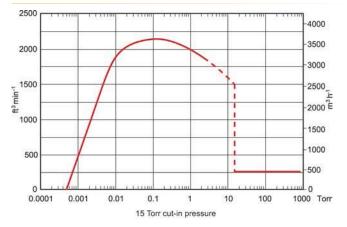


Whether you need to increase the capacity of your existing system or achieve peak performance for a new installation Edwards makes taking advantage of the latest technology easy. These field-proven pumping systems are the workhorse of countless industrial and large chamber applications. Each Stokes1700 series mechanical booster pump combination includes a Stokes Microvac backing pump and a belt driven, horizontal flow, high vacuum Stokes 6 series mechanical booster pump. In harsh applications where chemical or particulate contamination is present, process isolation boosters are available as an option. Controls for Stokes 1700 series mechanical booster pump combination include a pressure switch, motor starters, overloads, remote booster selection switch and lights for pump running and fault indication.

#### Dimensions



#### Performance Curves



#### **Technical Data**

1416 (55.75)

Booster displacement	4420 m
Booster	3600 rp
Booster orientation	Horizor
Pump displacement	510 m <sup>3</sup>
Pressure switch re uired	es
Normal cut-in pressure	13 mba
Continuous operation pressure limit	2.7 mb
Booster drive	22.4 kV
Pump drive (TEFC)	7.5 kW
Inlet connections	8 inch A
Discharge connections	3 inch / NPT
Water inlet/outlet connection	⅓ inch
Recommended cooling flow @ 30°C/85 °F	7.6 Imir
Booster oil capacity (V lube H)	1.9 litre
Microvac oil capacity (V lube F)	46 litre
Inlet height	1067 m
Footprint (L x W x H)	1905 x
	75 x 50
Weight	1803 kg

 $n^{3}h^{-1}/2600$  ft<sup>3</sup>min<sup>-1</sup> pm ntal  $h^{3}$  h<sup>-1</sup> / 300 ft<sup>3</sup> min<sup>-1</sup> ar / 15 Torr ar / 2 Torr N / 30 hp / 10 hp ASA/ANSI flange ASA/ANSI flange, 3 inch NPT  $n^{-1}$  / 2 galmin<sup>-1</sup> e / 0.51 US gal / 12 US gal nm / 42 inch 1270 x 1318 mm 0 x 51.89 inch g / 3975 lbs

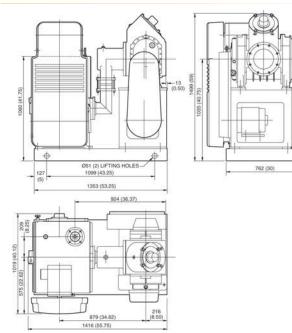
Product escription	rder o.
1739 230/460V, 3-ph, 60Hz (230/460V Coil)	900170039
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

# Sto es 1739 P echanical ooster Pump om ination

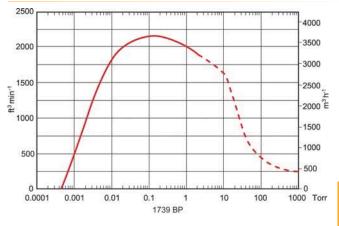
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#### **Dimensions**



#### Performance Curves



rder o.

90017039B

#### **Technical Data**

Booster displacement	4420 m <sup>3</sup> h <sup>-1</sup> / 2600 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	3600 rpm
Booster orientation	Horizontal
Pump displacement	510 $\text{m}^{3}\text{h}^{-1}$ / 300 $\text{ft}^{3}\text{min}^{-1}$
Pressure switch re uired	No
Continuous operation pressure limit	2.7 mbar / 2 Torr
Booster drive	22 kW / 30 hp
Pump drive (TEFC)	7.5 kW / 10 hp
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	3 inch ASA/ANSI flange, 3 inch NPT
Water inlet/outlet connection	1/2 inch NPT
Recommended cooling flow @ 30°C/85 °F	7.6 lmin <sup>-1</sup> / 2 galmin <sup>-1</sup>
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	46 litre / 12 US gal
Weight	1837 kg / 4050 lbs

#### Ordering Information Product escription 1739BP High Capacity Mechanical Booster Pump Combination 230/460V, 3Ø, 60 Hz with 230/460V Coil ccessories Spares Replacement parts kit

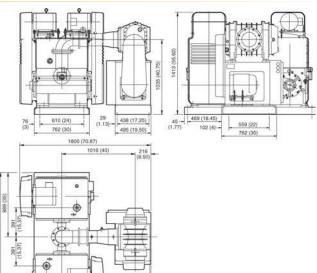
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

# Sto es 1739 echanical ooster Pump om ination

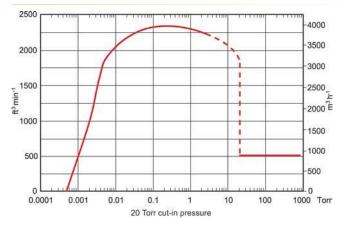


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#### Dimensions



#### Performance Curves



#### **Technical Data**

Booster displacement	4420 m <sup>3</sup> h <sup>-1</sup> / 2600 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	3600 rpm
Booster orientation	Horizontal
Pump displacement	$1020 \text{ m}^{3} \text{h}^{-1} / 600 \text{ ft}^{3} \text{min}^{-1}$
Pressure switch re uired	es
Normal cut-in pressure	33 mbar / 20 Torr
Continuous operation pressure limit	3.4 mbar / 2.5 Torr
Booster drive	18.6 kW / 25 hp
Pump drive (TEFC)	7.5 kW (x2) / 10 hp (x2)
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	3 inch ASA/ANSI flange, 3 inch NPT (x2)
Water inlet/outlet connection	1/2 inch NPT (x2)
Recommended cooling flow @ 30°C/85°F	7.6 lmin <sup>-1</sup> (x2) / 2 galmin <sup>-1</sup> (x2)
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	92 litre / 24 US gal
Weight	2733 kg / 6025 lbs

#### **Ordering Information**

Product escription	rder o.
1739HC 230/460V, 3-ph, 60Hz (230/460V Coil)	90017C039
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

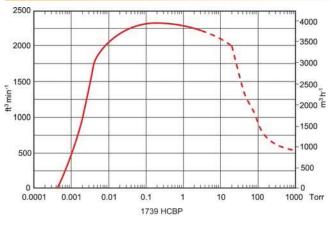
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# Sto es 1739 P echanical ooster Pump om ination

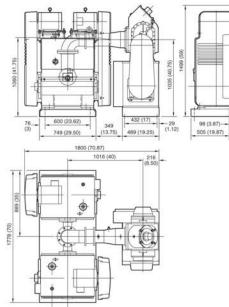
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749 (29.50





#### Dimensions



# Technical Data

Booster displacement	4420 m <sup>3</sup> h <sup>-1</sup> / 2600 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	3600 rpm
Booster orientation	Horizontal
Pump displacement	1020 m <sup>3</sup> h <sup>-1</sup> / 600 ft <sup>3</sup> min <sup>-1</sup>
Pressure switch required	No
Continuous operation pressure limit	4 mbar / 3 Torr
Booster drive	18.6 kW / 25 hp
Pump drive (TEFC)	7.5 kW (x2) / 10 hp (x2)
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	3 inch ASA/ANSI flange, 3 inch NPT (x2)
Water inlet/outlet connection	inch NPT (x2)
Recommended cooling flow 30 C/85 F	7.6 lmin <sup>-1</sup> (x2) / 2 galmin <sup>-1</sup> (x2)
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	92 litre / 24 US gal
Weight	2767 kg / 6100 lbs

## **Ordering Information**

Product Description	Order No.
1739HCBP 230/460V, 3-ph, 60Hz (230/460V Coil)	90017C39B
Accessories Spares	Order No.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002

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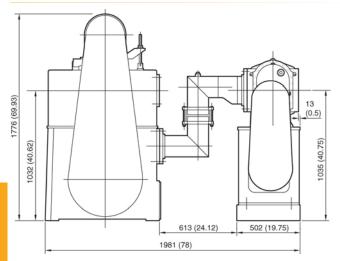
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# Sto es 1739 echanical ooster Pump om ination



Whether you need to increase the capacity of your existing system or achieve peak performance for a new installation Edwards makes taking advantage of the latest technology easy. These field-proven pumping systems are the workhorse of countless industrial and large chamber applications. Each Stokes1700 series mechanical booster pump combination includes a Stokes Microvac backing pump and a belt driven, horizontal flow, high vacuum Stokes 6 series mechanical booster pump. In harsh applications where chemical or particulate contamination is present, process isolation boosters are available as an option. Controls for Stokes 1700 series mechanical booster pump combination include a pressure switch, motor starters, overloads, remote booster selection switch and lights for pump running and fault indication.

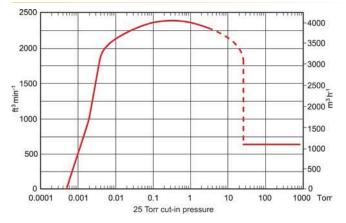
#### Dimensions



#### **Technical Data**

Booster displacement	4420 m <sup>3</sup> h <sup>-1</sup> / 2600 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	3600 rpm
Booster orientation	Horizontal
Pump displacement	$1240 \text{ m}^{3} \text{ h}^{-1}$ / 730 ft $^{3} \text{ min}^{-1}$
Pressure switch re uired	es
Normal cut-in pressure	47 mbar / 25 Torr
Continuous operation pressure limit	4 mbar / 3 Torr
Booster drive	18.5 kW / 25 hp
Pump drive (TEFC)	22.5 kW / 30 hp
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	5 inch NPT
Water inlet/outlet connection	1 inch NPT
Recommended cooling flow @ 30°C/85 °F	18.9 lmin <sup>-1</sup> / 5 galmin <sup>-1</sup>
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	76 litre / 20 US gal
Weight	3504 kg / 7725 lbs

#### Performance Curves

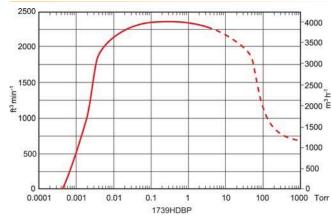


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274172001

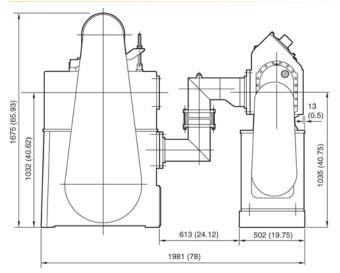
# Sto es 1739 P echanical ooster Pump om ination

Whether you need to increase the capacity of your existing system or achieve peak performance for a new installation Edwards makes taking advantage of the latest technology easy. These field-proven pumping systems are the workhorse of countless industrial and large chamber applications. Each Stokes1700 series mechanical booster pump combination includes a Stokes Microvac backing pump and a belt driven, horizontal flow, high vacuum Stokes 6 series mechanical booster pump. In harsh applications where chemical or particulate contamination is present, process isolation boosters are available as an option. Controls for Stokes 1700 series mechanical booster pump combination include a pressure switch, motor starters, overloads, remote booster selection switch and lights for pump running and fault indication.

#### Performance Curves



#### Dimensions



#### **Technical Data**

Booster displacement	4420 m <sup>3</sup> h <sup>-1</sup> / 2600 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	3600 rpm
Booster orientation	Horizontal
Pump displacement	$1240 \text{ m}^{3} \text{h}^{-1} / 730 \text{ ft}^{3} \text{min}^{-1}$
Pressure switch re uired	No
Continuous operation pressure limit	4 mbar / 3 Torr
Booster drive	18.5 kW / 25 hp
Pump drive	22.5 kW / 30 hp
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	5 inch NPT
Water inlet/outlet connection	1 inch NPT
Recommended cooling flow @ 30°C/85°F	18.9 lmin <sup>-1</sup> / 5 galmin <sup>-1</sup>
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	76 litre / 20 US gal
Weight	3538 kg / 7800 lbs

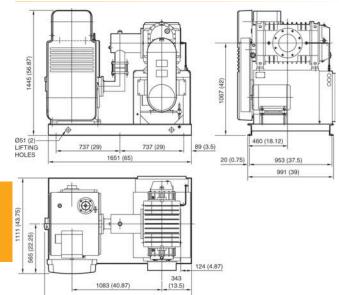
Product escription 1739HDBP 230/460V, 3-ph, 60Hz (230/460V Coil)	rder o. 90017D39B
CCessories Spares Replacement 6" booster Mseal - seal kit	rder o.
Replacement 6" booster - maintenance kit	607552002
Replacement oil seal	085018191
Replacement roller bearing	085033795
Roller bearing with adaptive sleeve	085033794
Valve deck stainless steel clappers	272963002
Valve deck springs	274172001

# Sto es 1754 echanical ooster Pump om ination

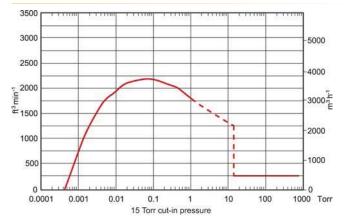


Whether you need to increase the capacity of your existing system or achieve peak performance for a new installation Edwards makes taking advantage of the latest technology easy. These field-proven pumping systems are the workhorse of countless industrial and large chamber applications. Each Stokes1700 series mechanical booster pump combination includes a Stokes Microvac backing pump and a belt driven, horizontal flow, high vacuum Stokes 6 series mechanical booster pump. In harsh applications where chemical or particulate contamination is present, process isolation boosters are available as an option. Controls for Stokes 1700 series mechanical booster pump combination include a pressure switch, motor starters, overloads, remote booster selection switch and lights for pump running and fault indication.

#### Dimensions



#### **Performance Curves**



#### **Technical Data**

1695 (66.75)

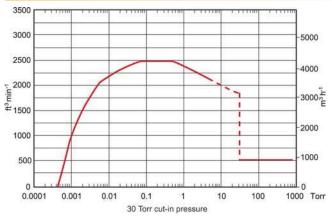
Booster displacement	5100 m <sup>3</sup> h <sup>-1</sup> / 3000 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	2750 rpm
Booster orientation	Horizontal
Pump displacement	510 $\text{m}^{3}\text{h}^{-1}$ / 300 $\text{ft}^{3}\text{min}^{-1}$
Pressure switch re uired	es
Normal cut-in pressure	20 mbar / 15 Torr
Continuous operation pressure limit	1.3 mbar / 1 Torr
Booster drive	15 kW / 20 hp
Pump drive	7.5 kW / 10 hp
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	3 inch ASA/ANSI flange, 3 inch NPT
Water inlet connection	½ inch NPT (2)
Water outlet connection	1/2 inch NPT
Recommended cooling flow @ 30°C/85°F	7.61 lmin <sup>-1</sup> / 2 galmin <sup>-1</sup>
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	46 litre / 12 US gal
Weight	1678 kg / 3700 lbs

Product escription	rder o.
1754 230/460V, 3-ph, 60Hz (230/460V Coil)	900170054
ccessories Spares	rder o.
Replacement parts kit	429638015
Replacement 6" booster Mseal - seal kit	607552001
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster - maintenance kit	607552002

## echanical ooster Pump om ination

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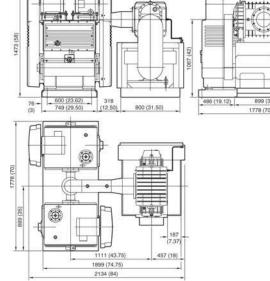




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**Dimensions** 

Sto es 1754



## Technical Data

Booster displacement	5100 m <sup>3</sup> h <sup>-1</sup> / 3000 ft <sup>3</sup> min <sup>-1</sup>
Booster speed	2750 rpm
Booster orientation	Horizontal
Pump displacement	$1020 \text{ m}^{3} \text{h}^{-1}$ / 600 ft <sup>3</sup> min <sup>-1</sup>
Pressure switch re uired	es
Normal cut-in pressure	40 mbar / 30 Torr
Continuous operation pressure limit	4 mbar / 3 Torr
Booster drive	18.5 kW / 25 hp
Pump drive	7.5 kW (x2) / 10 hp (x2)
Inlet connections	8 inch ASA/ANSI flange
Discharge connections	3 inch ASA/ANSI flange, 3 inch NPT (x2)
Water inlet/outlet connection	½ inch NPT (x2)
Recommended cooling flow @ 30°C/85°F	7.61 lmin <sup>-1</sup> (x2) / 2 galmin <sup>-1</sup> (x2)
Booster oil capacity (V lube H)	1.9 litre / 0.51 US gal
Microvac oil capacity (V lube F)	92 litre / 24 US gal
Weight	2722 kg / 6000 lbs

Product escription	rder o.
1754HC 230/460V, 3-ph, 60Hz (230/460V Coil)	900170055
ccessories Spares	rder o.
Replacement parts kit	429638015
Bearings	085019757
Valve deck assembly	607417001
Replacement 6" booster Mseal - seal kit	607552001
Replacement 6" booster - maintenance kit	607552002