

Паровые вакуумные насосы Diffstak

Технические характеристики

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Diffstak 160/700 Diffusion Pump - 1Ph 210-225V 50/60Hz, M - Manual Valve

Part Number: **B34831977**

Variant

Explore the range of variants given below to compare the product

	SHORT DESCRIPTION	PART NUMBER	VARIANT ISOLATION VALVE
☐	Diffstak 160/700M - 110-125V 1-ph 50/60 Hz	B34831976	M - Manual Valve
☒	Diffstak 160/700M - 210-225V 1-ph 50/60 Hz	B34831977	M - Manual Valve
☐	Diffstak 160/700M - 230-250V 1-ph 50/60 Hz	B34831978	M - Manual Valve
☐	Diffstak 160/700P - 110-125V 1-ph 50/60 Hz	B34832976	P - Pneumatic Valve
☐	Diffstak 160/700P - 210-225V 1-ph 50/60 Hz	B34832977	P - Pneumatic Valve
☐	Diffstak 160/700P - 230-250V 1-ph 50/60 Hz	B34832978	P - Pneumatic Valve
☐	Diffstak 160/700C - 110-125V 1-ph 50/60 Hz	B34833976	C - Unvalved
☐	Diffstak 160/700C - 210-225V 1-ph 50/60 Hz	B34833977	C - Unvalved
☐	Diffstak 160/700C - 230-250V 1-ph 50/60 Hz	B34833978	C - Unvalved
☐	Diffstak 160/700F - 110-125V 1-ph 50/60 Hz	B34840976	F - Unvalved with ConFlat flange
☐	Diffstak 160/700F - 210-225V 1-ph 50/60 Hz	B34840977	F - Unvalved with ConFlat flange
☐	Diffstak 160/700F - 230-250V 1-ph 50/60 Hz	B34840978	F - Unvalved with ConFlat flange



Diffusion Pumps

The Mk2 Diffstak series offers compact and efficient diffusion pumps, designed to deliver exceptionally clean pumping without the need for extra traps, baffles, or liquid nitrogen cooling.

Choose from four different sizes, 63-100-160-250mm based on your requirements and for applications prioritizing high ultimate vacuum, all four pump sizes are available with unvalved collars. These collars eliminate the need for backing/roughing connections.

For critical applications demanding the utmost vacuum performance, consider the unvalved versions. These models feature 6- or 8-inch diameter flanges, sealed with copper compression gaskets (ConFlat). Achieve an ultimate vacuum of less than 2×10^{-10} mbar (2×10^{-8} Pa) using a low-temperature trap.

Choose the Diffstak that best suits your vacuum system needs and enjoy reliable, efficient performance.

Diffstak Vapour Pumps

Diffusion Pumps

Diffstak Vapour Pumps

Features and Benefits

Diffusion Pump: The heart of the system, responsible for efficient pumping.

Water-Cooled Baffle: Ensures optimal cooling during operation.

High-Vacuum Isolation Valve: Part of the inlet-flange, configurable for manual or pneumatic operation.

Roughing Connection: Facilitates the initial pumping process.

General Product Information

Connection Vacuum Inlet Flange	DN 160 ISO-F
Weight	26.00 v
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ v
Power Supply Phase	1-Ph
Supply Voltage	1Ph 210-225V 50/60Hz
Dimension Length	0.355 v
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 v
Dimension Width	0.287 v
Cooling Method	Water Cooling
Connection Cooling	10 mm compression coupling
connectionVacuumFlangeCombined	DN 160 ISO-F / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
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High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps
Performance Data	
Power Total Rated	1350.00 _ ✓
Power Total Rated @60Hz	1350.00 _ ✓
Power Total Rated @50Hz	1350.00 _ ✓
Pressure Ultimate	3.000 × 10 ⁻⁶ _ ✓
Power at Atmosphere	1350.00 _ ✓
Power at Ultimate (Quiescent)	1350.00 _ ✓
Pumping Speed Nominal	0.700 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 _ ✓
Pumping speed N2 <10-4 mbar	0.700 ____ ✓
Power Consumption Max	1350.00 _ ✓
Material of Construction	
Material Of Construction	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
Material Exposed To Vacuum	Mild Steel Ni plated, Aluminium, Stainless steel, FluoroelastomerMild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated
Lubricants	
lubricantProductDefault	Santovac® 5

Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300 × 10 ⁵ __ ✓
Oil Capacity Min.	2.500 × 10 ⁻⁷ __ ✓
Oil Capacity Max.	2.500 × 10 ⁻⁷ __ ✓
Flow Cooling Water Min.	3.194 × 10 ⁻⁵ ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	M - Manual Valve
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Environmental Conditions

Temperature Ambient Storage Min.	293.15 _ ✓
Temperature Ambient Storage Max.	303.15 _ ✓



Specifications

Connection Vacuum Inlet Flange	DN 160 ISO-F
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Cooling Method	Water Cooling
Pressure Ultimate	3.000 × 10 ⁻⁶ ___ ▼
Supply Voltage	1Ph 110-125V 50/60Hz
Power Total Rated	1350.00 ___ ▼

**Diffstak 160/700 Diffusion Pump - 1Ph 110-125V
50/60Hz, M - Manual Valve**

Part Number: **B34831976**



General Product Information

Connection Vacuum Inlet Flange	DN 160 ISO-F
Weight	26.00 __ ▾
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ _____ ▾
Power Supply Phase	1-Ph
Supply Voltage	1Ph 110-125V 50/60Hz
Dimension Length	0.355 __ ▾
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 __ ▾
Dimension Width	0.287 __ ▾
Cooling Method	Water Cooling
Connection Cooling	10 mm compression coupling
connectionVacuumFlangeCombined	DN 160 ISO-F / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps

Performance Data

Power Total Rated	1350.00 __ ▾
Power Total Rated @60Hz	1350.00 __ ▾

Power Total Rated @50Hz	1350.00 __ ✓
Pressure Ultimate	3.000 × 10 ⁻⁶ __ ✓
Power at Atmosphere	1350.00 __ ✓
Power at Ultimate (Quiescent)	1350.00 __ ✓
Pumping Speed Nominal	0.700 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 __ ✓
Pumping speed N2 <10-4 mbar	0.700 ____ ✓
Power Consumption Max	1350.00 __ ✓

Material of Construction

Material Of Construction	Stainless steel
Material Exposed To Vacuum	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated

Lubricants

lubricantProductDefault	Santovac® 5
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Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300 × 10 ⁵ __ ✓
Oil Capacity Min.	2.500 × 10 ⁻⁷ ____ ✓
Oil Capacity Max.	2.500 × 10 ⁻⁷ ____ ✓
Flow Cooling Water Min.	3.194 × 10 ⁻⁵ ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	M - Manual Valve
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Environmental Conditions

Temperature Ambient Storage Min.	293.15 __ ✓
Temperature Ambient Storage Max.	303.15 __ ✓



Specifications

Connection Vacuum Inlet Flange	DN 160 ISO-F
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Cooling Method	Water Cooling
Pressure Ultimate	3.000×10^{-6} ___ ▼
Supply Voltage	1Ph 230-250V 50/60Hz
Power Total Rated	1350.00 ___ ▼

Diffstak 160/700 Diffusion Pump - 1Ph 230-250V 50/60Hz, M - Manual Valve

Part Number: **B34831978**



General Product Information

Connection Vacuum Inlet Flange	DN 160 ISO-F
Weight	26.00 __ ▾
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ _____ ▾
Power Supply Phase	1-Ph
Supply Voltage	1Ph 230-250V 50/60Hz
Dimension Length	0.355 __ ▾
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 __ ▾
Dimension Width	0.287 __ ▾
Cooling Method	Water Cooling
Connection Cooling	10 mm compression coupling
connectionVacuumFlangeCombined	DN 160 ISO-F / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps

Performance Data

Power Total Rated	1350.00 __ ▾
Power Total Rated @60Hz	1350.00 __ ▾

Power Total Rated @50Hz	1350.00 __ ✓
Pressure Ultimate	3.000 × 10 ⁻⁶ __ ✓
Power at Atmosphere	1350.00 __ ✓
Power at Ultimate (Quiescent)	1350.00 __ ✓
Pumping Speed Nominal	0.700 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 __ ✓
Pumping speed N2 <10-4 mbar	0.700 ____ ✓
Power Consumption Max	1350.00 __ ✓

Material of Construction

Material Of Construction	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
Material Exposed To Vacuum	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated

Lubricants

lubricantProductDefault	Santovac® 5
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Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300 × 10 ⁵ __ ✓
Oil Capacity Min.	2.500 × 10 ⁻⁷ ____ ✓
Oil Capacity Max.	2.500 × 10 ⁻⁷ ____ ✓
Flow Cooling Water Min.	3.194 × 10 ⁻⁵ ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	M - Manual Valve
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Environmental Conditions

Temperature Ambient Storage Min.	293.15 __ ✓
Temperature Ambient Storage Max.	303.15 __ ✓



Specifications

Connection Vacuum Inlet Flange	DN 160 ISO-F
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Cooling Method	Water Cooling
Pressure Ultimate	3.000×10^{-6} v
Supply Voltage	1Ph 110-125V 50/60Hz
Power Total Rated	1350.00 v

Diffstak 160/700 Diffusion Pump - 1Ph 110-125V 50/60Hz, P - Pneumatic Valve

Part Number: **B34832976**



General Product Information

Connection Vacuum Inlet Flange	DN 160 ISO-F
Weight	27.00 __ ▾
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ _____ ▾
Power Supply Phase	1-Ph
Supply Voltage	1Ph 110-125V 50/60Hz
Dimension Length	0.355 __ ▾
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 __ ▾
Dimension Width	0.287 __ ▾
Cooling Method	Water Cooling
Connection Cooling	10 mm compression coupling
connectionVacuumFlangeCombined	DN 160 ISO-F / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps

Performance Data

Power Total Rated	1350.00 __ ▾
Power Total Rated @60Hz	1350.00 __ ▾

Power Total Rated @50Hz	1350.00 __ ✓
Pressure Ultimate	3.000 × 10 ⁻⁶ __ ✓
Power at Atmosphere	1350.00 __ ✓
Power at Ultimate (Quiescent)	1350.00 __ ✓
Pumping Speed Nominal	0.700 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 __ ✓
Pumping speed N2 <10-4 mbar	0.700 ____ ✓
Power Consumption Max	1350.00 __ ✓

Material of Construction

Material Of Construction	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
Material Exposed To Vacuum	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated

Lubricants

lubricantProductDefault	Santovac® 5
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Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300 × 10 ⁵ __ ✓
Oil Capacity Min.	2.500 × 10 ⁻⁷ ____ ✓
Oil Capacity Max.	2.500 × 10 ⁻⁷ ____ ✓
Flow Cooling Water Min.	3.194 × 10 ⁻⁵ ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	P - Pneumatic Valve
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Environmental Conditions

Temperature Ambient Storage Min.	293.15 __ ✓
Temperature Ambient Storage Max.	303.15 __ ✓



Specifications

Connection Vacuum Inlet Flange	DN 160 ISO-F
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Cooling Method	Water Cooling
Pressure Ultimate	3.000×10^{-6} ___ ▼
Supply Voltage	1Ph 210-225V 50/60Hz
Power Total Rated	1350.00 ___ ▼

Diffstak 160/700 Diffusion Pump - 1Ph 210-225V 50/60Hz, P - Pneumatic Valve

Part Number: **B34832977**



General Product Information

Connection Vacuum Inlet Flange	DN 160 ISO-F
Weight	27.00 __ ▾
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ _____ ▾
Power Supply Phase	1-Ph
Supply Voltage	1Ph 210-225V 50/60Hz
Dimension Length	0.355 __ ▾
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 __ ▾
Dimension Width	0.287 __ ▾
Cooling Method	Water Cooling
Connection Cooling	10 mm compression coupling
connectionVacuumFlangeCombined	DN 160 ISO-F / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps

Performance Data

Power Total Rated	1350.00 __ ▾
Power Total Rated @60Hz	1350.00 __ ▾

Power Total Rated @50Hz	1350.00 __ ✓
Pressure Ultimate	3.000 × 10 ⁻⁶ __ ✓
Power at Atmosphere	1350.00 __ ✓
Power at Ultimate (Quiescent)	1350.00 __ ✓
Pumping Speed Nominal	0.700 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 __ ✓
Pumping speed N2 <10-4 mbar	0.700 ____ ✓
Power Consumption Max	1350.00 __ ✓

Material of Construction

Material Of Construction	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
Material Exposed To Vacuum	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated

Lubricants

lubricantProductDefault	Santovac® 5
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Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300 × 10 ⁵ __ ✓
Oil Capacity Min.	2.500 × 10 ⁻⁷ ____ ✓
Oil Capacity Max.	2.500 × 10 ⁻⁷ ____ ✓
Flow Cooling Water Min.	3.194 × 10 ⁻⁵ ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	P - Pneumatic Valve
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Environmental Conditions

Temperature Ambient Storage Min.	293.15 __ ✓
Temperature Ambient Storage Max.	303.15 __ ✓



Specifications

Connection Vacuum Inlet Flange	DN 160 ISO-F
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Cooling Method	Water Cooling
Pressure Ultimate	3.000 × 10 ⁻⁶ ___ ▼
Supply Voltage	1Ph 230-250V 50/60Hz
Power Total Rated	1350.00 ___ ▼

**Diffstak 160/700 Diffusion Pump - 1Ph 230-250V
50/60Hz, P - Pneumatic Valve**
Part Number: **B34832978**



General Product Information

Connection Vacuum Inlet Flange	DN 160 ISO-F
Weight	27.00 __ ▾
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ _____ ▾
Power Supply Phase	1-Ph
Supply Voltage	1Ph 230-250V 50/60Hz
Dimension Length	0.355 __ ▾
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 __ ▾
Dimension Width	0.287 __ ▾
Cooling Method	Water Cooling
Connection Cooling	10 mm compression coupling
connectionVacuumFlangeCombined	DN 160 ISO-F / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps

Performance Data

Power Total Rated	1350.00 __ ▾
Power Total Rated @60Hz	1350.00 __ ▾

Power Total Rated @50Hz	1350.00 __ ✓
Pressure Ultimate	3.000 × 10 ⁻⁶ __ ✓
Power at Atmosphere	1350.00 __ ✓
Power at Ultimate (Quiescent)	1350.00 __ ✓
Pumping Speed Nominal	0.700 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 __ ✓
Pumping speed N2 <10-4 mbar	0.700 ____ ✓
Power Consumption Max	1350.00 __ ✓

Material of Construction

Material Of Construction	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
Material Exposed To Vacuum	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated

Lubricants

lubricantProductDefault	Santovac® 5
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Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300 × 10 ⁵ __ ✓
Oil Capacity Min.	2.500 × 10 ⁻⁷ ____ ✓
Oil Capacity Max.	2.500 × 10 ⁻⁷ ____ ✓
Flow Cooling Water Min.	3.194 × 10 ⁻⁵ ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	P - Pneumatic Valve
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Environmental Conditions

Temperature Ambient Storage Min.	293.15 __ ✓
Temperature Ambient Storage Max.	303.15 __ ✓



Specifications

Connection Vacuum Inlet Flange	DN 160 ISO-K
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Cooling Method	Water Cooling
Pressure Ultimate	3.000×10^{-6} ___ ▼
Supply Voltage	1Ph 110-125V 50/60Hz
Power Total Rated	1350.00 ___ ▼

Diffstak 160/700 Diffusion Pump - 1Ph 110-125V 50/60Hz, C - Unvalved

Part Number: **B34833976**



General Product Information

Connection Vacuum Inlet Flange	DN 160 ISO-K
Weight	18.00 __ ▾
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ _____ ▾
Power Supply Phase	1-Ph
Supply Voltage	1Ph 110-125V 50/60Hz
Dimension Length	0.355 __ ▾
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 __ ▾
Dimension Width	0.287 __ ▾
Cooling Method	Water Cooling
Connection Cooling	6 mm compression coupling
connectionVacuumFlangeCombined	DN 160 ISO-K / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps

Performance Data

Power Total Rated	1350.00 __ ▾
Power Total Rated @60Hz	1350.00 __ ▾

Power Total Rated @50Hz	1350.00 __ ✓
Pressure Ultimate	3.000 × 10 ⁻⁶ __ ✓
Power at Atmosphere	1350.00 __ ✓
Power at Ultimate (Quiescent)	1350.00 __ ✓
Pumping Speed Nominal	0.760 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 __ ✓
Pumping speed N2 <10-4 mbar	0.760 ____ ✓
Power Consumption Max	1350.00 __ ✓

Material of Construction

Material Of Construction	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
Material Exposed To Vacuum	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated

Lubricants

lubricantProductDefault	Santovac® 5
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Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300 × 10 ⁵ __ ✓
Oil Capacity Min.	2.500 × 10 ⁻⁷ ____ ✓
Oil Capacity Max.	2.500 × 10 ⁻⁷ ____ ✓
Flow Cooling Water Min.	3.194 × 10 ⁻⁵ ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	C - Unvalved
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Environmental Conditions

Temperature Ambient Storage Min.	293.15 __ ✓
Temperature Ambient Storage Max.	303.15 __ ✓



Specifications

Connection Vacuum Inlet Flange	DN 160 ISO-K
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Cooling Method	Water Cooling
Pressure Ultimate	3.000×10^{-6} ___ ▼
Supply Voltage	1Ph 210-225V 50/60Hz
Power Total Rated	1350.00 ___ ▼

Diffstak 160/700 Diffusion Pump - 1Ph 210-225V 50/60Hz, C - Unvalved

Part Number: **B34833977**



General Product Information

Connection Vacuum Inlet Flange	DN 160 ISO-K
Weight	18.00 __ ▾
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ _____ ▾
Power Supply Phase	1-Ph
Supply Voltage	1Ph 210-225V 50/60Hz
Dimension Length	0.355 __ ▾
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 __ ▾
Dimension Width	0.287 __ ▾
Cooling Method	Water Cooling
Connection Cooling	10 mm compression coupling
connectionVacuumFlangeCombined	DN 160 ISO-K / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps

Performance Data

Power Total Rated	1350.00 __ ▾
Power Total Rated @60Hz	1350.00 __ ▾

Power Total Rated @50Hz	1350.00 __ ✓
Pressure Ultimate	3.000 × 10 ⁻⁶ __ ✓
Power at Atmosphere	1350.00 __ ✓
Power at Ultimate (Quiescent)	1350.00 __ ✓
Pumping Speed Nominal	0.760 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 __ ✓
Pumping speed N2 <10-4 mbar	0.760 ____ ✓
Power Consumption Max	1350.00 __ ✓

Material of Construction

Material Of Construction	Stainless steel
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated

Lubricants

lubricantProductDefault	Santovac® 5
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Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300 × 10 ⁵ __ ✓
Oil Capacity Min.	2.500 × 10 ⁻⁷ __ ✓
Oil Capacity Max.	2.500 × 10 ⁻⁷ ____ ✓
Flow Cooling Water Min.	3.194 × 10 ⁻⁵ ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	C - Unvalved
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Environmental Conditions

Temperature Ambient Storage Min.	293.15 __ ✓
Temperature Ambient Storage Max.	303.15 __ ✓



Specifications

Connection Vacuum Inlet Flange	DN 160 ISO-K
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Cooling Method	Water Cooling
Pressure Ultimate	3.000×10^{-6} ___ ▼
Supply Voltage	1Ph 230-250V 50/60Hz
Power Total Rated	1350.00 ___ ▼

Diffstak 160/700 Diffusion Pump - 1Ph 230-250V 50/60Hz, C - Unvalved

Part Number: **B34833978**



General Product Information

Connection Vacuum Inlet Flange	DN 160 ISO-K
Weight	18.00 __ ▾
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ _____ ▾
Power Supply Phase	1-Ph
Supply Voltage	1Ph 230-250V 50/60Hz
Dimension Length	0.355 __ ▾
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 __ ▾
Dimension Width	0.287 __ ▾
Cooling Method	Water Cooling
Connection Cooling	10 mm compression coupling
connectionVacuumFlangeCombined	DN 160 ISO-K / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps

Performance Data

Power Total Rated	1350.00 __ ▾
Power Total Rated @60Hz	1350.00 __ ▾

Power Total Rated @50Hz	1350.00 __ ✓
Pressure Ultimate	3.000 × 10 ⁻⁶ __ ✓
Power at Atmosphere	1350.00 __ ✓
Power at Ultimate (Quiescent)	1350.00 __ ✓
Pumping Speed Nominal	0.760 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 __ ✓
Pumping speed N2 <10-4 mbar	0.760 ____ ✓
Power Consumption Max	1350.00 __ ✓

Material of Construction

Material Of Construction	Stainless steel
Material Exposed To Vacuum	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated

Lubricants

lubricantProductDefault	Santovac® 5
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Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300 × 10 ⁵ __ ✓
Oil Capacity Min.	2.500 × 10 ⁻⁷ ____ ✓
Oil Capacity Max.	2.500 × 10 ⁻⁷ ____ ✓
Flow Cooling Water Min.	3.194 × 10 ⁻⁵ ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	C - Unvalved
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Environmental Conditions

Temperature Ambient Storage Min.	293.15 __ ✓
Temperature Ambient Storage Max.	303.15 __ ✓



Specifications

Connection Vacuum Inlet Flange	DN 160 CF (8")
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Cooling Method	Water Cooling
Pressure Ultimate	3.000×10^{-6} ___ ▼
Supply Voltage	1Ph 110-125V 50/60Hz
Power Total Rated	1350.00 ___ ▼

Diffstak 160/700 Diffusion Pump - 1Ph 110-125V 50/60Hz, F - Unvalved with ConFlat flange

Part Number: **B34840976**



General Product Information

Connection Vacuum Inlet Flange	DN 160 CF (8")
Weight	20.00 __ ▾
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ _____ ▾
Power Supply Phase	1-Ph
Supply Voltage	1Ph 110-125V 50/60Hz
Dimension Length	0.355 __ ▾
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 __ ▾
Dimension Width	0.287 __ ▾
Cooling Method	Water Cooling
Connection Cooling	10 mm compression coupling
connectionVacuumFlangeCombined	DN 160 CF (8") / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps

Performance Data

Power Total Rated	1350.00 __ ▾
Power Total Rated @60Hz	1350.00 __ ▾

Power Total Rated @50Hz	1350.00 __ ✓
Pressure Ultimate	3.000×10^{-6} __ ✓
Power at Atmosphere	1350.00 __ ✓
Power at Ultimate (Quiescent)	1350.00 __ ✓
Pumping Speed Nominal	0.760 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 __ ✓
Pumping speed N2 <10-4 mbar	0.760 ____ ✓
Power Consumption Max	1350.00 __ ✓

Lubricants

lubricantProductDefault	Santovac® 5
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Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300×10^5 __ ✓
Oil Capacity Min.	2.500×10^{-7} __ ✓
Oil Capacity Max.	2.500×10^{-7} __ ✓
Flow Cooling Water Min.	3.194×10^{-5} ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	F - Unvalved with ConFlat flange
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Material of Construction

Material Of Construction	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
Material Exposed To Vacuum	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated

Environmental Conditions

Temperature Ambient Storage Min.	293.15 __ ✓
Temperature Ambient Storage Max.	303.15 __ ✓



Specifications

Connection Vacuum Inlet Flange	DN 160 CF (8")
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Cooling Method	Water Cooling
Pressure Ultimate	3.000×10^{-6} ___ ▼
Supply Voltage	1Ph 210-225V 50/60Hz
Power Total Rated	1350.00 ___ ▼

Diffstak 160/700 Diffusion Pump - 1Ph 210-225V 50/60Hz, F - Unvalved with ConFlat flange

Part Number: **B34840977**



General Product Information

Connection Vacuum Inlet Flange	DN 160 CF (8")
Weight	20.00 __ ▾
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ _____ ▾
Power Supply Phase	1-Ph
Supply Voltage	1Ph 210-225V 50/60Hz
Dimension Length	0.355 __ ▾
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 __ ▾
Dimension Width	0.287 __ ▾
Cooling Method	Water Cooling
Connection Cooling	10 mm compression coupling
connectionVacuumFlangeCombined	DN 160 CF (8") / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps

Performance Data

Power Total Rated	1350.00 __ ▾
Power Total Rated @60Hz	1350.00 __ ▾

Power Total Rated @50Hz	1350.00 __ ✓
Pressure Ultimate	3.000×10^{-6} __ ✓
Power at Atmosphere	1350.00 __ ✓
Power at Ultimate (Quiescent)	1350.00 __ ✓
Pumping Speed Nominal	0.760 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 __ ✓
Pumping speed N2 <10-4 mbar	0.760 ____ ✓
Power Consumption Max	1350.00 __ ✓

Lubricants

lubricantProductDefault	Santovac® 5
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Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300×10^5 __ ✓
Oil Capacity Min.	2.500×10^{-7} __ ✓
Oil Capacity Max.	2.500×10^{-7} __ ✓
Flow Cooling Water Min.	3.194×10^{-5} ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	F - Unvalved with ConFlat flange
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Material of Construction

Material Of Construction	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
Material Exposed To Vacuum	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated

Environmental Conditions

Temperature Ambient Storage Min.	293.15 __ ✓
Temperature Ambient Storage Max.	303.15 __ ✓



Specifications

Connection Vacuum Inlet Flange	DN 160 CF (8")
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Cooling Method	Water Cooling
Pressure Ultimate	3.000×10^{-6} v
Supply Voltage	1Ph 230-250V 50/60Hz
Power Total Rated	1350.00 v

Diffstak 160/700 Diffusion Pump - 1Ph 230-250V 50/60Hz, F - Unvalved with ConFlat flange

Part Number: **B34840978**



General Product Information

Connection Vacuum Inlet Flange	DN 160 CF (8")
Weight	20.00 __ ▾
Connection vacuum outlet flange	DN 25 ISO-KF (NW25)
Leak Rate	1.000 × 10 ⁻¹⁰ _____ ▾
Power Supply Phase	1-Ph
Supply Voltage	1Ph 230-250V 50/60Hz
Dimension Length	0.355 __ ▾
IP Rating	IP22
Supply Frequency	50 Hz
	60 Hz
Dimension Height	0.578 __ ▾
Dimension Width	0.287 __ ▾
Cooling Method	Water Cooling
Connection Cooling	10 mm compression coupling
connectionVacuumFlangeCombined	DN 160 CF (8") / DN 25 ISO-KF (NW25)
dimensionComments	The dimensions length, width and height try to describe the outer shape of this particular product in its typical orientation when standing on the ground. We always recommend checking the detailed dimensions given in 2D drawings in the instruction manual or the 3D shapes given in 3D models.

Classification

Product Pressure Range	High Vacuum: 1·10 ⁻³ - 1·10 ⁻⁷ mbar
High / Medium / Rough Vacuum Classification	High Vacuum Pump
Dry or Wet Pump	Wet
Vacuum Pump Technology	Diffusion Pumps

Performance Data

Power Total Rated	1350.00 __ ▾
Power Total Rated @60Hz	1350.00 __ ▾

Power Total Rated @50Hz	1350.00 __ ✓
Pressure Ultimate	3.000 × 10 ⁻⁶ __ ✓
Power at Atmosphere	1350.00 __ ✓
Power at Ultimate (Quiescent)	1350.00 __ ✓
Pumping Speed Nominal	0.760 ____ ✓
Warm Up Time	1800.00 _ ✓
Pressure Backing Max.	60.00 __ ✓
Pumping speed N2 <10-4 mbar	0.760 ____ ✓
Power Consumption Max	1350.00 __ ✓

Lubricants

lubricantProductDefault	Santovac® 5
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Operation Conditions - Limitations

Pressure Inlet Continous Max.	1.300 × 10 ⁵ __ ✓
Oil Capacity Min.	2.500 × 10 ⁻⁷ __ ✓
Oil Capacity Max.	2.500 × 10 ⁻⁷ __ ✓
Flow Cooling Water Min.	3.194 × 10 ⁻⁵ ____ ✓
pressureOutletMaxContinous	60.00 __ ✓

Variants

Variant Isolation Valve	F - Unvalved with ConFlat flange
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Material of Construction

Material Of Construction	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
Material Exposed To Vacuum	Mild Steel Ni plated, Aluminium, Stainless steel, Fluoroelastomer
materialRotor	Mild Steel Ni plated
materialStator	Mild Steel Ni plated

Environmental Conditions

Temperature Ambient Storage Min.	293.15 __ ✓
Temperature Ambient Storage Max.	303.15 __ ✓



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