

Pioneering for You

wilo

产品手册

Wilo-Atmos BST

卧式不锈钢端吸泵





“威乐，
值得信赖的
水泵专家。”



Wilo-Atmos BST

威乐端吸泵 BST 系列，遵循威乐百年制泵理念，产品安全、高效、环保。叶轮可根据客户使用环境采用多种不锈钢材质。泵体与电机之间直连结构，尺寸紧凑。机械密封采用波纹管结构以及石墨、碳化硅材质，具有定位准确，可靠性高，方便维护等特点。

BST 系列端吸泵可广泛应用于供热、空调系统、循环系统、供水系统等。

www.wilo.com.cn

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Wilo-Atmos BST
卧式不锈钢端吸泵

Series description Wilo-Atmos BST 系列说明



Application

Pumps of the Wilo-Atmos BST series are used to transport clean or slightly polluted (max.20 ppm), non-aggressive liquids containing no solid components in

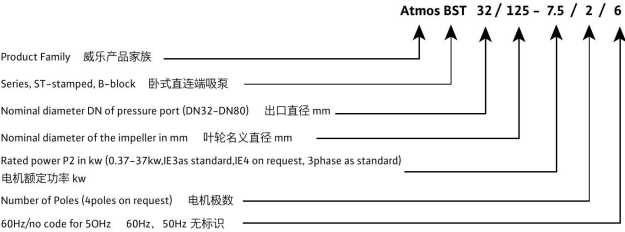
- Warm water heating systems
- Chilled and cooling water systems
- Water systems for industrial use
- Industrial circulating systems
- Heat transfer media circulation

应用

威乐 Atmos BST 系列水泵适用于输送洁净或微污染（最大 20ppm），无腐蚀性不含固体物质的液体；

- 热水采暖系统
- 冷却水和冷冻水系统
- 工业用水系统
- 工业循环系统
- 传热循环系统

型号说明



Special features/product benefits

- Energy-saving due to state-of-the-art pump hydraulics and usage of IE3 motors
- Universal use in diverse applications thanks to different impeller materials, several motor options as well as different mechanical seals
- Easy installation due to standard pump support feet
- Easy maintenance and user-friendly design
- Hydraulic components with stainless steel design ensure high resistance to corrosion and long service life
- Meets user requirements due to performance and main dimensions in accordance with EN 733

产品特点 / 优点

- 采用先进的泵水力部件和 IE3 电机，确保节能
- 提供多种叶轮材料机械密封，可广泛应用于各类应用
- 标配的泵脚助您轻松安装
- 保养简单，结构型人性化
- 水力部件采用不锈钢材料，可以保证高度的耐腐蚀性和较长的使用寿命
- 功率和主要尺寸符合 EN 733 标准，可满足用户要求

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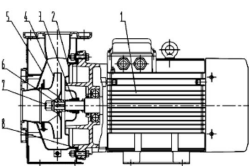
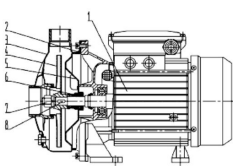
Wilo-Atmos BST



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Wilo-Atmos BST
卧式不锈钢端吸泵

Series description Wilo-Atmos BST 系列说明



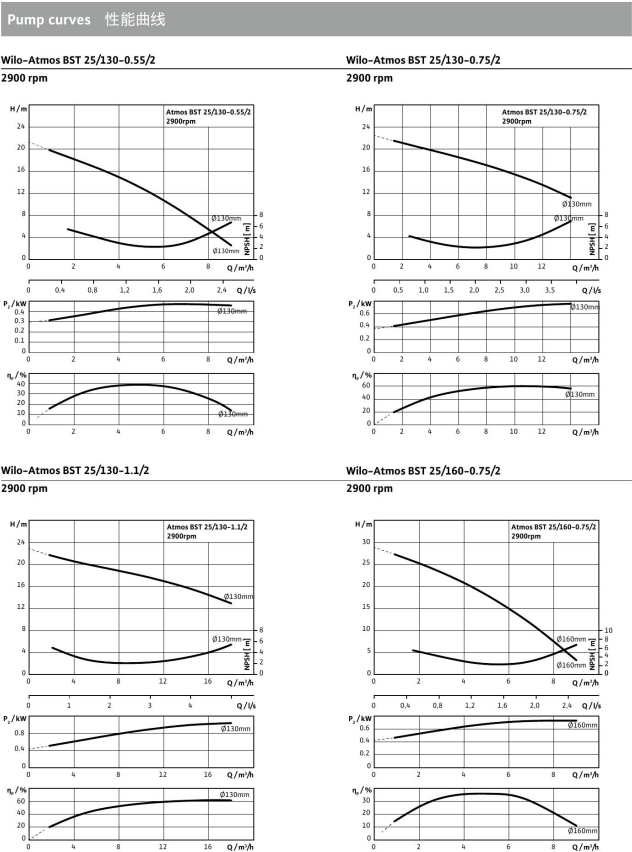
Item 序号	Parts name 零件名称	Material 材料	Qty. 数量
1	Motor 电机		1
2	O-ring O 形圈	EPDM	1
3	Pump casing 泵盖	SUS304/SUS316	1
4	Impeller 叶轮	SUS304/SUS316	1
5	Dis.Cover 泵壳	SUS304/SUS316	1
6	M.seal 机械密封		1
7	Hexagon Nut 六角螺母	SUS304/SUS316	1
8	Key 平键	SUS304/SUS316	1

Item 序号	Parts name 零件名称	Material 材料	Qty. 数量
1	Motor 电机		1
2	Pump casing 泵盖	SUS304/SUS316	1
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7	Hexagon Nut 六角螺母	SUS304/SUS316	1
8	O-ring O 形圈	EPDM	1

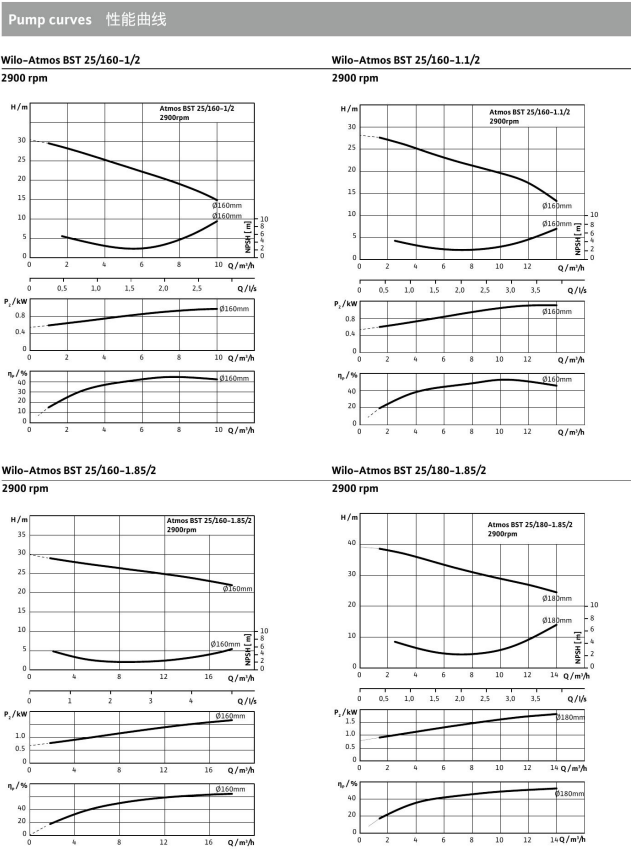
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Technical data Wilo-Atmos BST 技术参数		
		Wilo-Atmos BST
Approved fluids (other fluids on request) 允许的输送介质 (其他介质请来函咨询)		
Heating water (in acc. with VDI 2035) 供暖热水 (符合 VDI 2035 标准)		•
Cooling and cold water 冷却水和冷水		•
Water-glycol mixtures (for 20–40% vol. glycol and fluid temperature ≤ 40 °C) 水–乙二醇混合液 (乙二醇溶液体积含量 20–40%)		• (from 10 vol.% glycol: performance check required up to 50% glycol: mechanical seal on request) (乙二醇含量超过 10% ; 性能参数需重新调整 ; 溶液体积含量达 50% : 机械密封请来函咨询)
Permitted field of application 应用范围		
Max. operating pressure 最大工作压力		10bar
Temperature range [°C] 温度范围 [°C]		–20 °C → +120 °C
Max. ambient temperature [°C] 最高环境温度		+50 °C
Pipe connections 管路连接		
Nominal connection diameters DN on suction side: 进口端 出口端		100 (larger nominal on request)(其他口径请来函咨询) 80 (larger nominal on request)(其他口径请来函咨询)
Flanges (according to EN 1092-2) 法兰承压 (符合 EN 1092-2)		
Materials 材质		
Pump housing 泵体		1.4301, 1.4401
Impeller (standard) 叶轮标准	•	1.4301, 1.4401
Pump shaft 泵轴	•	1.4301, 1.4401
Mechanical seal 机械密封	•	B3Q1EF, B3Q1EG
Other mechanical seals 其他机械密封		– on request (depending on the pumped liquid) 其他 (来函咨询)
Electrical connection 电气连接		
Speed range [rpm] 转速 [rpm]	•	2900
Speed range (special version at 转速 (另需加价) [rpm]	–	1450
Motor/electronics 电机		
Factory standard IEC motor IEC 电机	–	
Protection class 防护等级	•	IP55
Insulation class 绝缘等级	•	F
Motor protection required onsite 现场需配电机保护		–(To be provided for onsite installation) (现场由其它方提供)
Frequency Range 频率范围		35–50Hz

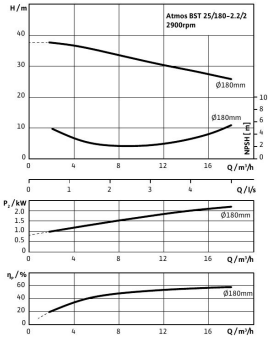


Technical data Wilo-Atmos BST 技术参数		
		Wilo-Atmos BST
Energy efficiency class 能效等级		国际三级能效电机 G818613–2020 other efficiency on request 其他能效单询
Motor winding up to 3kW 电机绕组 ≤ 3kW	•	220 V Δ/380 VY, 50 Hz, 1–220V, 50Hz
Motor winding from 4kW 电机绕组 ≥ 4kW	•	380V Δ/660 VY, 50 Hz
Other voltages/frequencies 其他电压 / 频率	–	Special version at additional charge 另需加价
• = available 标准配置 – = not available 可选用		

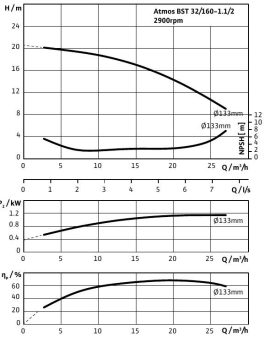


Pump curves 性能曲线

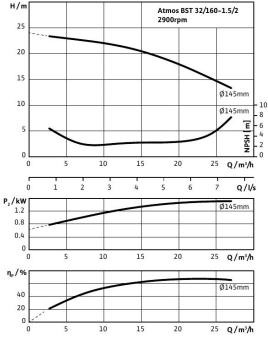
Wilo-Atmos BST 25/180-2.2/2
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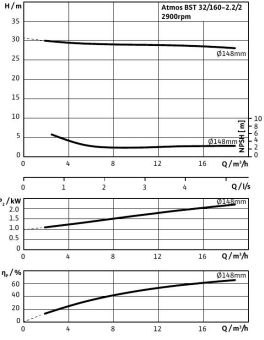
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Wilo-Atmos BST 32/160-1.5/2
2900 rpm



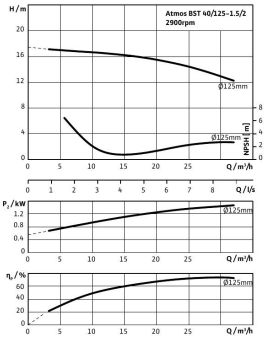
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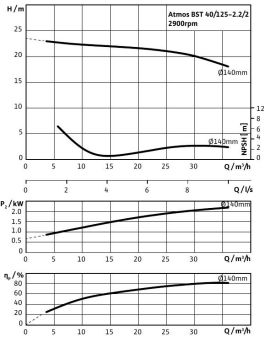
7 Subject to change without prior notice. 威乐公司不断改进和创新产品。若技术参数发生改变，以变更后数据为准，保留技术更改的权利。

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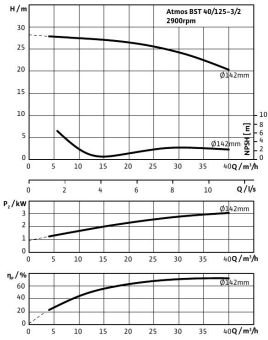
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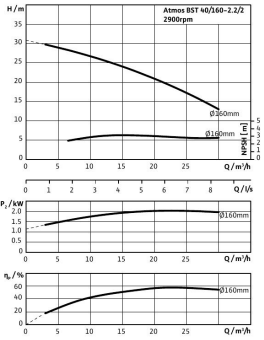
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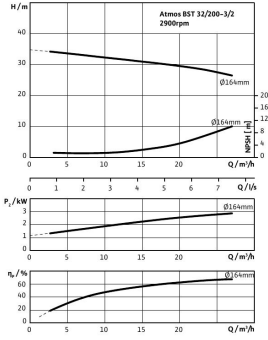
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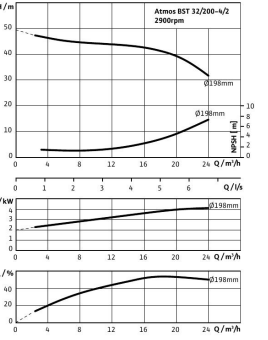
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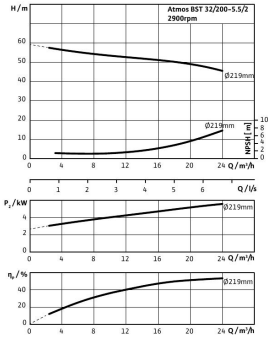
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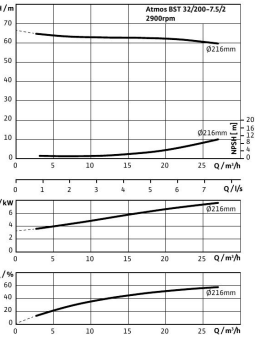
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Wilo-Atmos BST 32/200-5.5/2
2900 rpm



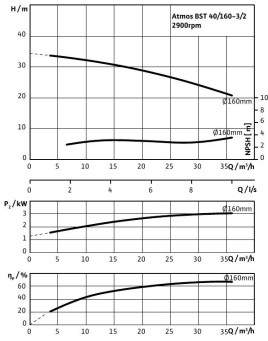
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2900 rpm



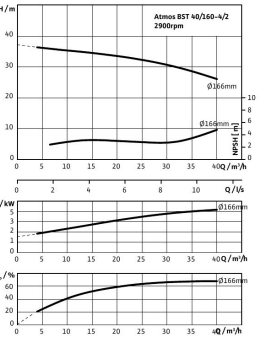
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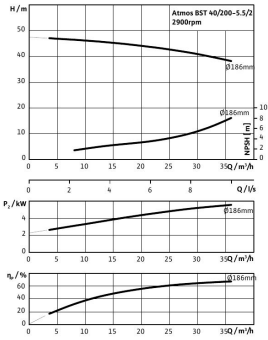
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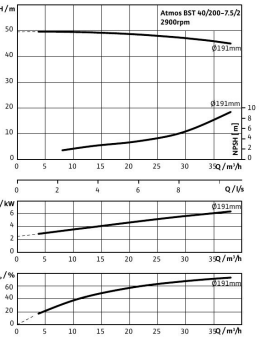
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Wilo-Atmos BST 40/200-5.5/2
2900 rpm



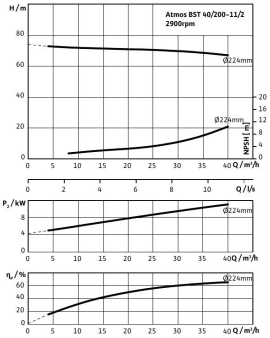
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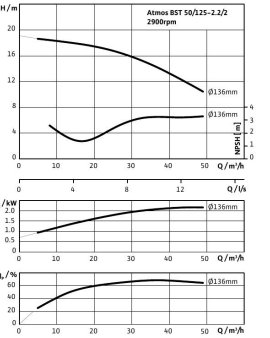
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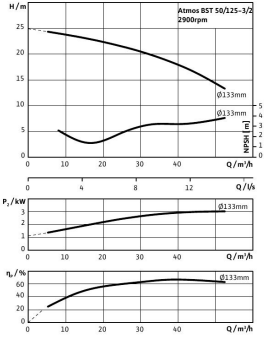
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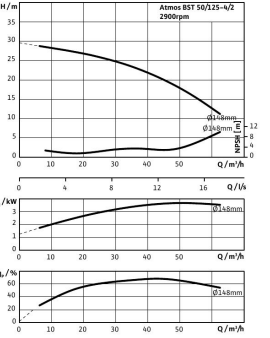
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Wilo-Atmos BST 50/125-3/2
2900 rpm



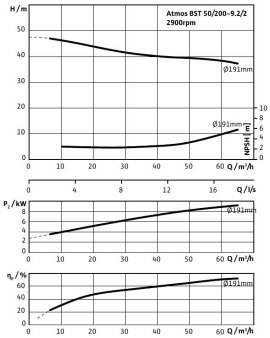
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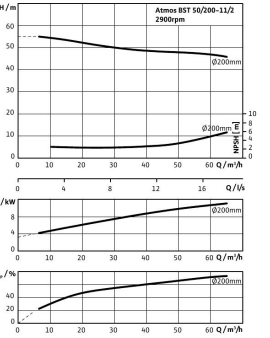
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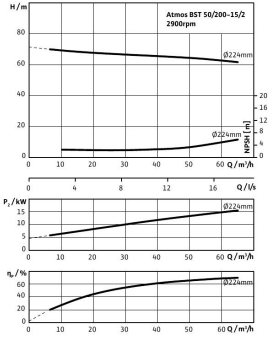
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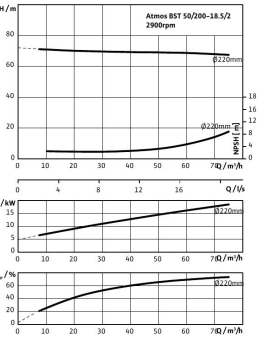
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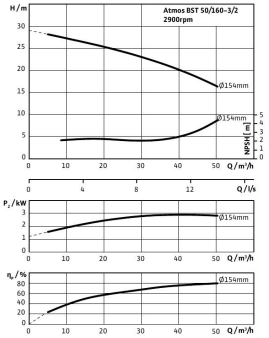
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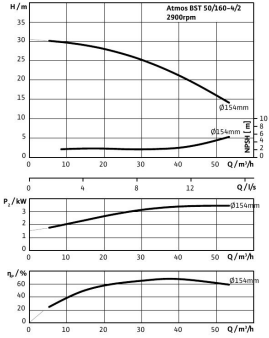
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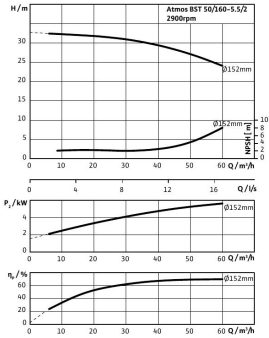
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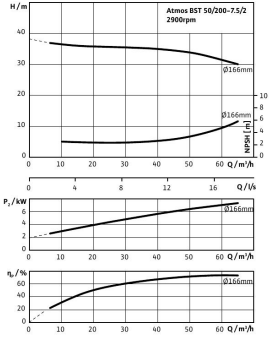
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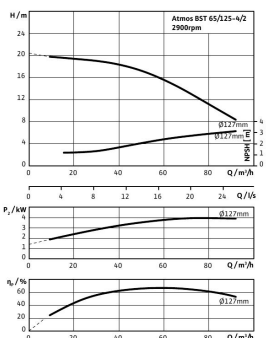
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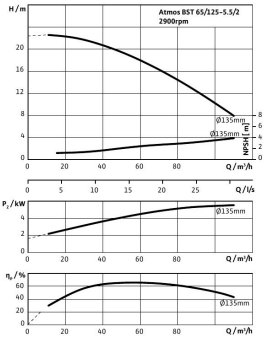
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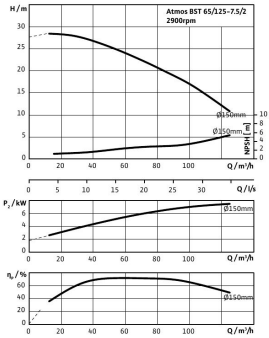
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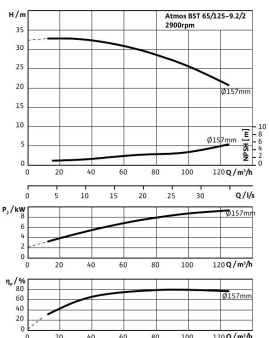
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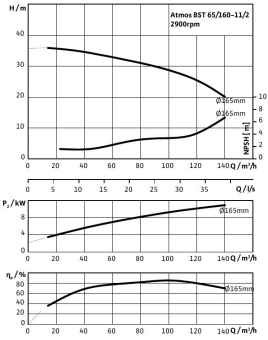
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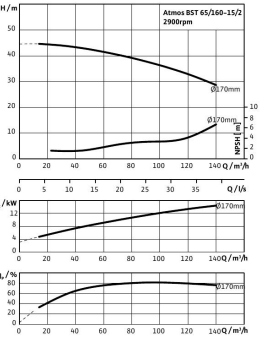
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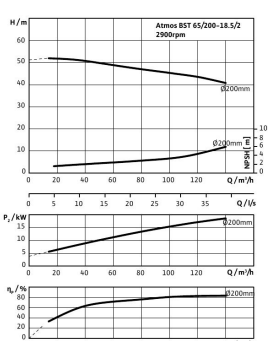
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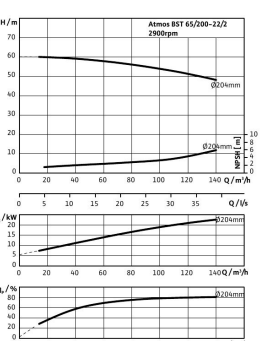
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Wilo-Atmos BST 65/200-18.5/2
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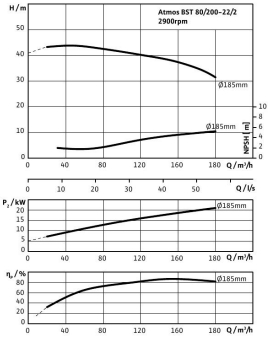
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2900 rpm



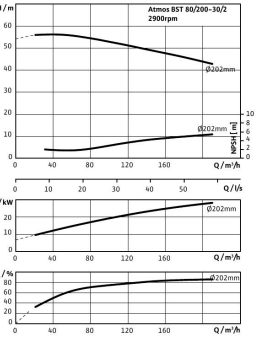
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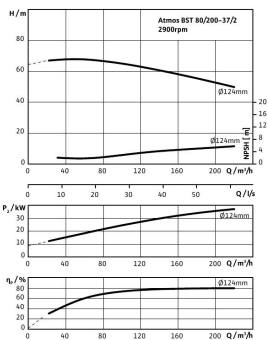
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Wilo-Atmos BST 80/200-30/2
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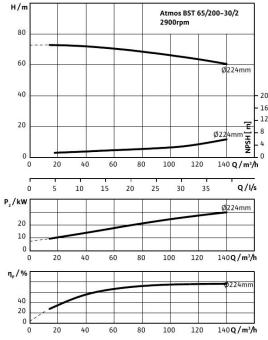
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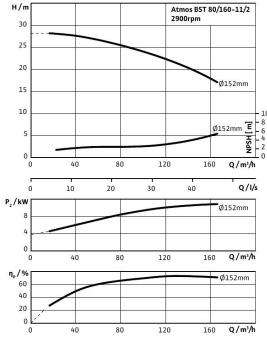
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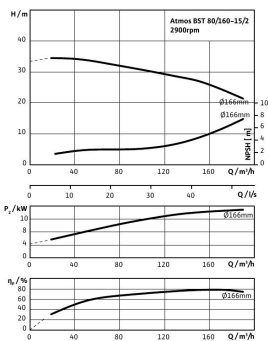
Wilo-Atmos BST 65/200-30/2
2900 rpm



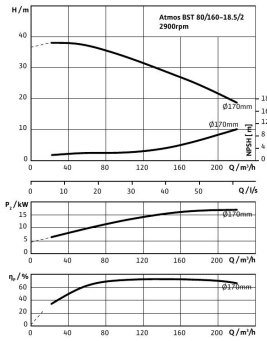
Wilo-Atmos BST 80/160-11/2
2900 rpm



Wilo-Atmos BST 80/160-15/2
2900 rpm

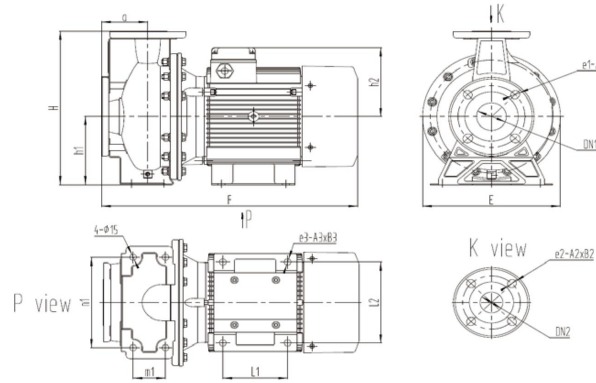


Wilo-Atmos BST 80/160-18.5/2
2900 rpm



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Dimensions, weights 外形尺寸表



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Wilo-Atmos BST
卧式不锈钢端吸泵

Dimensions, weights		外形尺寸表																						
Type	电机 [kw]	电压 类型	重量 [kg]	外形尺寸 mm																		口径 mm		
	2900 [RPM]	V	Net Weight	E	F	H	h1	h2	a	m1	n1	L1	L2	ø1	A1	ø2	A2	B2	ø3	A3	B3	DN1	DN2	
Atmos BST 32/160-1.1/2-Vv	1.1	1-220	21	215	390	255	112	114	80	70	160	90	125	4	18	20	4	18	20	4	12	18	50	32
Atmos BST 32/160-1.5/2-Vv	1.5	1-220	18.7	215	390	255	112	132	80	70	160	90	125	4	18	20	4	18	20	4	12	18	50	32
Atmos BST 32/160-2.2/2-Vv	2.2	1-220	25.5	215	437	255	112	144	80	70	160	100	160	4	18	20	4	18	20	4	12	18	50	32
Atmos BST 32/160-1.1/2	1.1	3-380	21	215	390	255	112	107	80	70	160	90	125	4	18	20	4	18	20	4	12	18	50	32
Atmos BST 32/160-1.5/2	1.5	3-380	22.5	215	390	255	112	107	80	70	160	90	125	4	18	20	4	18	20	4	12	18	50	32
Atmos BST 32/160-2.2/2	2.2	3-380	28	215	437	255	112	112	80	70	160	100	160	4	18	20	4	18	20	4	12	18	50	32
Atmos BST 32/200-3/2	3	3-380	30	298	455	340	160	112	80	70	190	100	160	4	18	20	4	18	20	4	12	18	50	32
Atmos BST 32/200-4/2	4	3-380	40.5	298	490	340	160	147	80	70	190	140	190	4	18	20	4	18	20	4	15	20	50	32
Atmos BST 32/200-5.5/2	5.5	3-380	55	298	519	340	160	162	80	70	190	140	190	4	18	20	4	18	20	4	15	20	50	32
Atmos BST 32/200-7.5/2	7.5	3-380	60	298	557	340	160	162	80	70	190	140	190	4	18	20	4	18	20	4	15	20	50	32
Atmos BST 40/125-1.5/2-Vv	1.5	1-220	20	215	390	255	112	132	80	70	160	90	125	4	18	20	4	18	20	4	12	18	65	40
Atmos BST 40/125-2.2/2-Vv	2.2	1-220	25	215	437	255	112	144	80	70	160	100	160	4	18	20	4	18	20	4	12	18	65	40
Atmos BST 40/125-1.5/2	1.5	3-380	20	215	390	255	112	107	80	70	160	90	125	4	18	20	4	18	20	4	12	18	65	40
Atmos BST 40/125-2.2/2	2.2	3-380	30	215	437	255	112	112	80	70	160	100	160	4	18	20	4	18	20	4	12	18	65	40
Atmos BST 40/125-3/2	3	3-380	31	256	456	292	132	112	80	70	190	100	160	4	18	20	4	18	20	4	12	18	65	40
Atmos BST 40/160-2.2/2-Vv	2.2	1-220	26	256	436	292	132	144	80	70	190	100	160	4	18	20	4	18	20	4	12	18	65	40
Atmos BST 40/160-2.2/2	2.2	3-380	31	256	436	292	132	112	80	70	190	100	160	4	18	20	4	18	20	4	12	18	65	40
Atmos BST 40/160-3/2	3	3-380	33	256	456	292	132	112	80	70	190	100	160	4	18	20	4	18	20	4	12	18	65	40
Atmos BST 40/160-4/2	4	3-380	43	256	491	292	132	147	80	70	190	140	190	4	18	20	4	18	20	4	15	20	65	40
Atmos BST 40/200-5.5/2	5.5	3-380	51	298	543	360	160	162	100	70	212	140	190	4	18	20	4	18	20	4	15	20	65	40
Atmos BST 40/200-7.5/2	7.5	3-380	62	298	579	360	160	162	100	70	212	140	190	4	18	20	4	18	20	4	15	20	65	40
Atmos BST 50/200-11/2	11	3-380	80.2	298	615	360	160	182	100	70	212	140	216	4	18	20	4	18	20	4	15	20	65	40
Atmos BST 50/125-2.2/2-Vv	2.2	1-220	26	256	436	292	132	144	80	70	190	100	160	4	18	20	4	18	20	4	12	18	65	50
Atmos BST 50/125-2.2/2	2.2	3-380	31	256	436	292	132	112	80	70	190	100	160	4	18	20	4	18	20	4	12	18	65	50
Atmos BST 50/125-3/2	3	3-380	30	256	456	292	132	112	80	70	190	100	160	4	18	20	4	18	20	4	12	18	65	50
Atmos BST 50/125-4/2	4	3-380	43	256	491	292	132	147	80	70	190	140	190	4	18	20	4	18	20	4	15	20	65	50
Atmos BST 50/160-3/2	3	3-380	32	298	477	360	160	112	100	70	212	100	160	4	18	20	4	18	20	4	12	18	65	50
Atmos BST 50/160-4/2	4	3-380	44	298	512	360	160	147	100	70	212	140	190	4	18	20	4	18	20	4	15	20	65	50
Atmos BST 50/160-5.5/2	5.5	3-380	50	298	543	360	160	162	100	70	212	140	190	4	18	20	4	18	20	4	15	20	65	50
Atmos BST 50/200-7.5/2	7.5	3-380	65	298	579	360	160	162	100	70	212	140	190	4	18	20	4	18	20	4	15	20	65	50
Atmos BST 50/200-9.2/2	9.2	3-380	73	298	615	360	160	182	100	70	212	140	216	4	18	20	4	18	20	4	15	20	65	50
Atmos BST 50/200-11/2	11	3-380	89	298	615	360	160	182	100	70	212	140	216	4	18	20	4	18	20	4	15	20	65	50
Atmos BST 50/200-15/2	15	3-380	90	298	656	360	160	182	100	70	212	140	216	4	18	20	4	18	20	4	15	20	65	50
Atmos BST 65/121-4/2	4	3-380	43	256	514	340	160	147	100	95	212	140	190	8	18	20	4	18	20	4	15	20	80	65
Atmos BST 65/121-5.5/2	5.5	3-380	53	256	543	340	160	162	100	95	212	140	190	8	18	20	4	18	20	4	15	20	80	65
Atmos BST 65/121-7.5/2	7.5	3-380	65	256	581	340	160	162	100	95	212	140	190	8	18	20	4	18	20	4	15	20	80	65
Atmos BST 65/121-9.2/2	9.2	3-380	68	256	642	340	160	182	100	95	212	140	216	8	18	20	4	18	20	4	15	20	80	65
Atmos BST 65/160-11/2	11	3-380	84	298	618	360	160	182	100	95	212	140	216	8	18	20	4	18	20	4	15	20	80	65
Atmos BST 65/160-15/2	15	3-380	92.8	298	659	360	160	182	100	95	212	140	216	8	18	20	4	18	20	4	15	20	80	65
Atmos BST 80/160-11/2	11	3-380	83	290	675	405	180	182	125	95	250	140	216	8	18	20	4	18	20	4	15	20	100	80
Atmos BST 80/160-15/2	15	3-380	98	290	716	405	180	182	125	95	250	140	216	8	18	20	4	18	20	4	15	20	100	80

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Dimensions, weights 外形尺寸表

Technical drawing showing the front view of a pump unit. The drawing includes the following dimensions and labels:

- W**: Overall width.
- W1**: Width of the main body.
- H**: Overall height.
- L1**: Distance from the center to the mounting flange.
- 2-5**: Detail callout for the mounting flange.

Technical drawing showing the side view of a pump unit. The drawing includes the following dimensions and labels:

- L**: Overall length.
- L1**: Distance from the center to the mounting flange.
- a**: Distance from the center to the mounting flange.
- DN1**: Nominal diameter of the inlet.
- DN2**: Nominal diameter of the outlet.

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Dimensions, weights 外形尺寸表

Technical drawings of a pump assembly, showing dimensions and labels.

Side View (Left): Shows the pump housing and motor. Dimensions include H (total height), h_1 (housing height), a (flange thickness), h_2 (motor height), F (motor base width), and $\varnothing D$ (motor shaft diameter).

Front View (Bottom): Shows the pump housing and motor. Dimensions include m_1 (housing width), m (housing depth), $6-\varnothing 15$ (housing holes), $\varnothing 3-5$ (motor holes), L_1 (motor base length), and L_2 (motor base width).

Top View (Right): Shows the pump housing and motor. Dimensions include K (flange diameter), $e f-A \times b_1$ (flange hole pattern), $DN1$ (flange diameter), and E (motor base width).

Bottom View (Bottom): Shows the pump housing and motor. Dimensions include K view (flange diameter), $e 2-A \times b_2$ (flange hole pattern), and $DN2$ (flange diameter).



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Wilo-Atmos BST/2304/EN/CHN

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