Pioneering for You

Brochure

Wilo-Atmos BST

Wilo-Atmos BST

The Wilo BST series end-suction pump adheres to Wilo's century-old pump manufacturing philosophy, ensuring products that prioritize safety, efficiency, and environmental friendliness. The impeller can be fabricated from a variety of stainless steel materials to suit the customer's operating environment. The direct-coupled structure between the pump body and motor results in a compact design. The mechanical seal incorporates a corrugated tube structure along with graphite and silicon carbide materials, affording precise positioning, high reliability, and ease of maintenance.

The BST series end-suction pump finds extensive applications in heating, air conditioning systems, circulation systems, and water supply systems,

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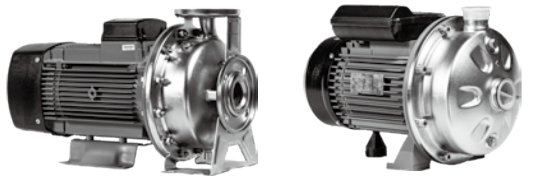
Wilo-Atmos BST



Series description Wilo-Atmos BST

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

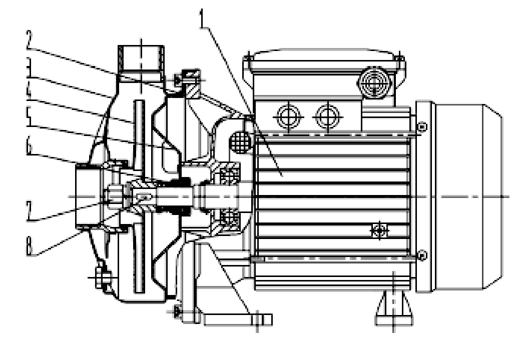
Atmos BST 32 / 125 - 7.5 / 2 / 6

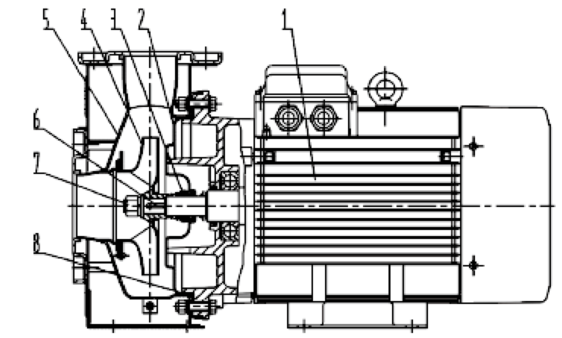
- Product Family
- Series, ST-stamped, B-block
- Nominal diameter DN of pressure port (DN32-DN80)
- Nominal diameter of the impeller in mm
- Rated power P2 in kw (0.37-37kw,IE3as standard,IE4 on request, 3phase as standard)
- Number of Poles (4poles on request)
- 60Hz/no code for 5OHz 60Hz, 50Hz

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

Series description Wilo-Atmos BST





Item	Parts name	Material	Qty.
1	Motor		1
2	O-ring	EPDM	1
3	Pump caing	SUS304/SUS316	1
4	Impeller	SUS304/SUS316	1
5	Dis.Cover	SUS304/SUS316	1
6	M.seal		1
7	Hexagon Nut	SUS304/SUS316	1
8	Key	SUS304/SUS316	1

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6	Key	SUS304/SUS316	1
7	Hexagon Nut	SUS304/SUS316	1
8	O-ring	EPDM	1

Technical data Wilo-Atmos BST

		Wilo-Atmos BST
Approved fluids (other fluids on request)		
Heating water (in acc. with VDI 2035)		
Cooling and cold water		
Water-glycol mixtures (for 20-40% vol. glycol and fluid temperature ≤ 40°C)	•	(from 10 vol.% glycol: performance check required up to 50% glycol: mechanical seal on request)
Permitted field of application		
Max. operating pressure		10bar
Temperature range [°C]		-20℃ ~+120℃
Max. ambient temperature [°C]		+50℃
Pipe connections		
Nominal connection diameters DN on suction side: on pressure side:		100 (larger nominal on request) 80 (larger nominal on request)
Flanges (according to EN 1092-2)		
Materials		
Pump housing		1.4301, 1.4401
Impeller (standard)	•	1.4301, 1.4401
Pump shaft	•	1.4301, 1.4401
Mechanical seal	•	B3Q1EF, B3Q1EG
Other mechanical seals	–	on request (depending on the pumped liquid)
Electrical connection		
Speed range [rpm]	•	2900
Speed range (special version at	–	1450
Motor/electronics		
Factory standard IEC motor		
Protection class	•	IP55
Insulation class	•	F
Motor protection required onsite	–	(To be provided for onsite installation)
Frequency Range		35-50Hz

Technical data Wilo-Atmos BST

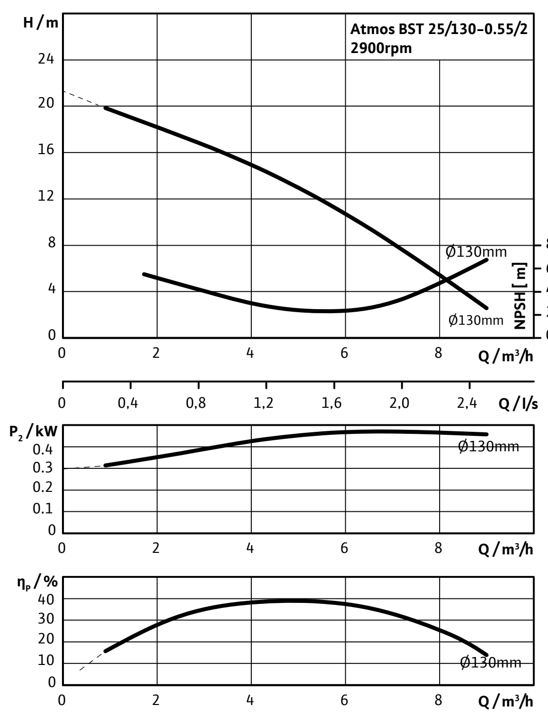
		Wilo-Atmos BST
Energy efficiency class		IE3 for three-phase version, IE1 for single-phase version
Motor winding up to 3kW	•	230 V △/400 VY, 50 Hz, 1~230V, 50Hz
Motor winding from 4kW	•	400V △/690VY, 50 Hz
Other voltages/frequencies	–	Special version at additional charge

• = available
– = not available

Pump curves

Wilo-Atmos BST 25/130-0.55/2

2900 rpm



Wilo-Atmos BST 25/130-0.75/2

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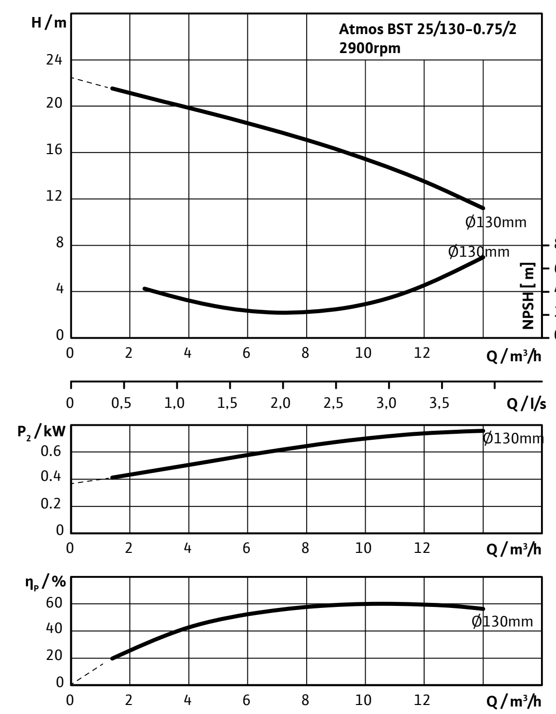
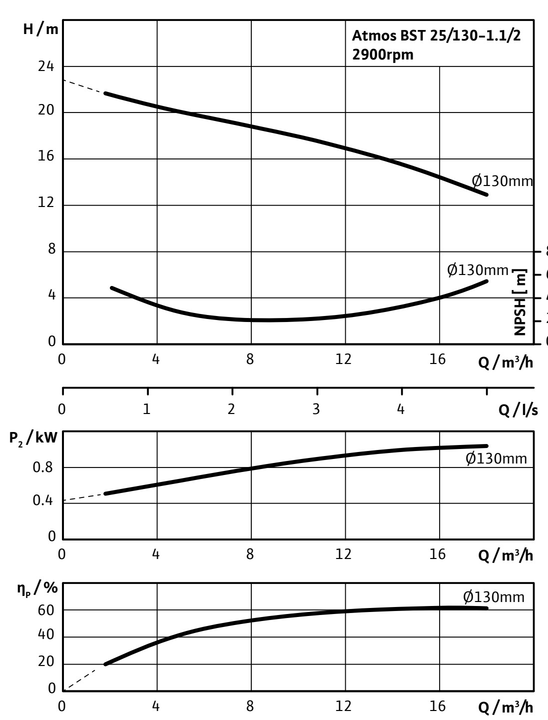


Wilo-Atmos BST 25/130-1.1/2

2900 rpm



Wilo-Atmos BST 25/160-0.75/2

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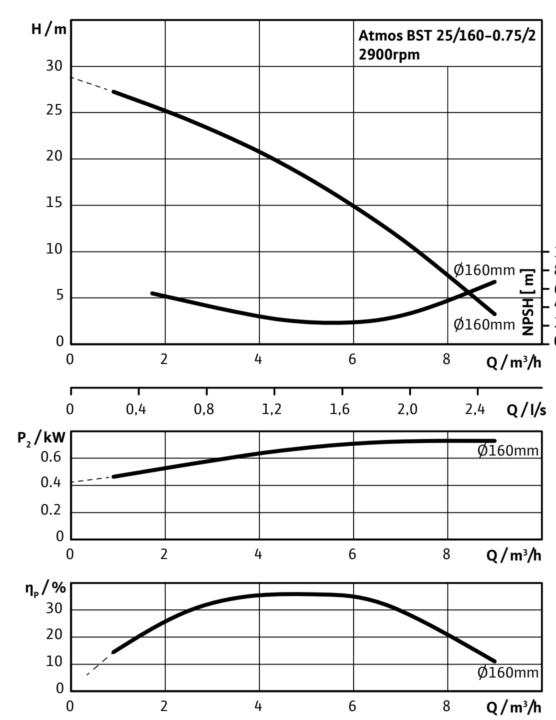
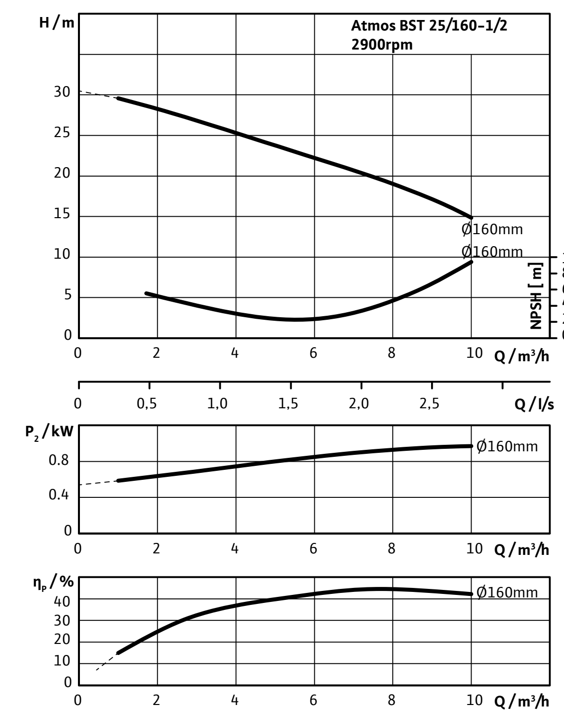


Subject to change without prior notice.

Pump curves

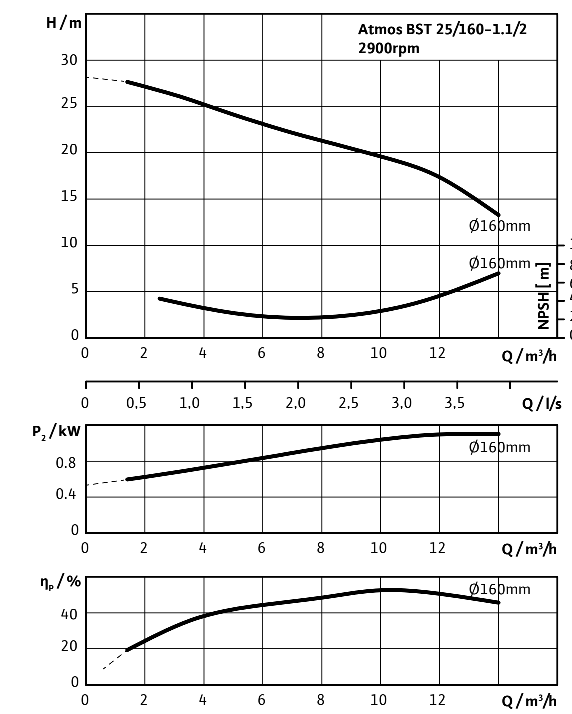
Wilo-Atmos BST 25/160-1/2

2900 rpm



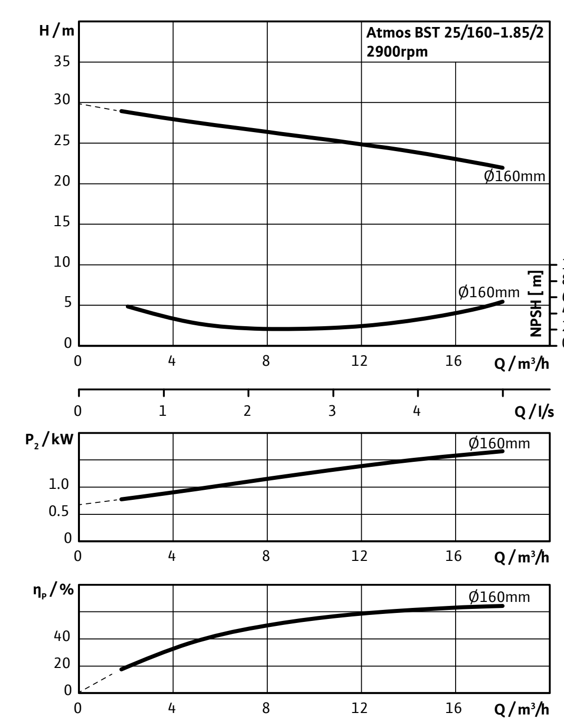
Wilo-Atmos BST 25/160-1.1/2

2900 rpm



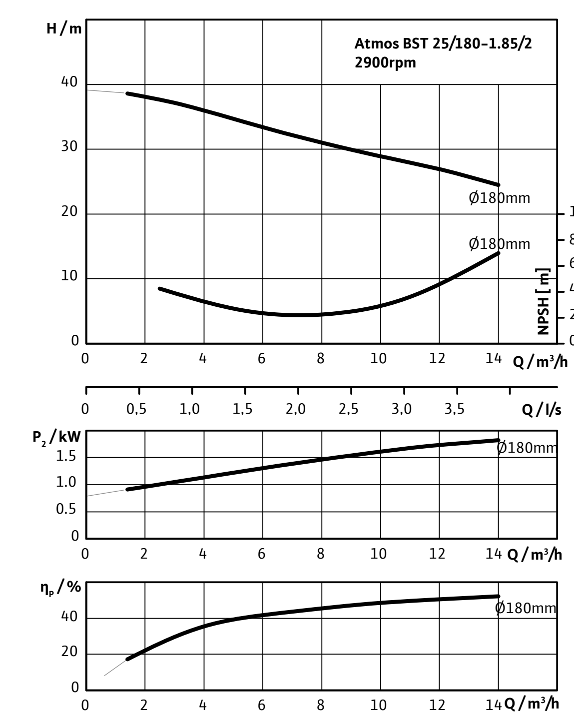
Wilo-Atmos BST 25/160-1.85/2

2900 rpm



Wilo-Atmos BST 25/180-1.85/2

2900 rpm



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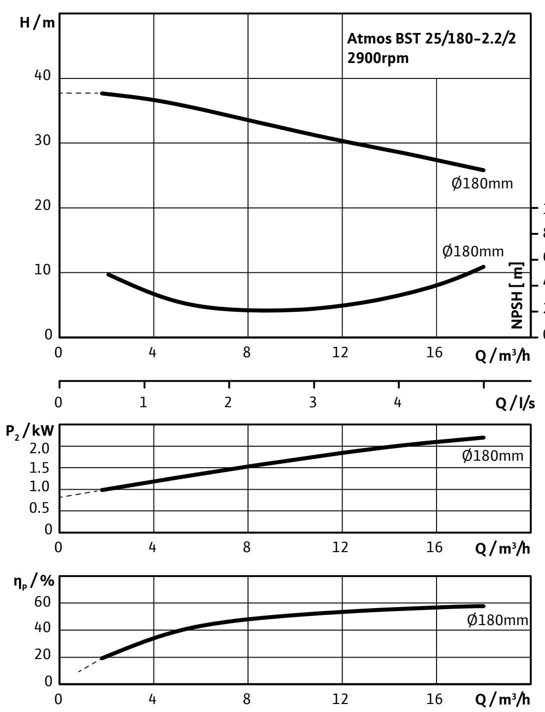
Pump curves

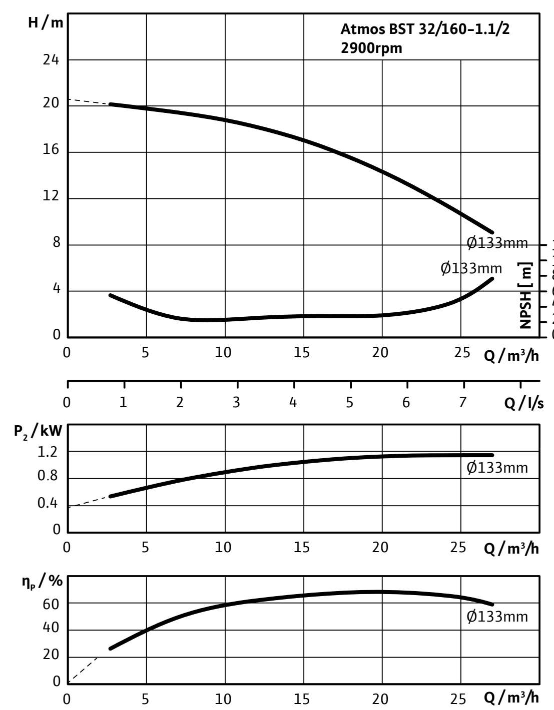
Wilo-Atmos BST 25/180-2.2/2

2900 rpm



Wilo-Atmos BST 32/160-1.1/2

2900 rpm



Wilo-Atmos BST 32/160-1.5/2

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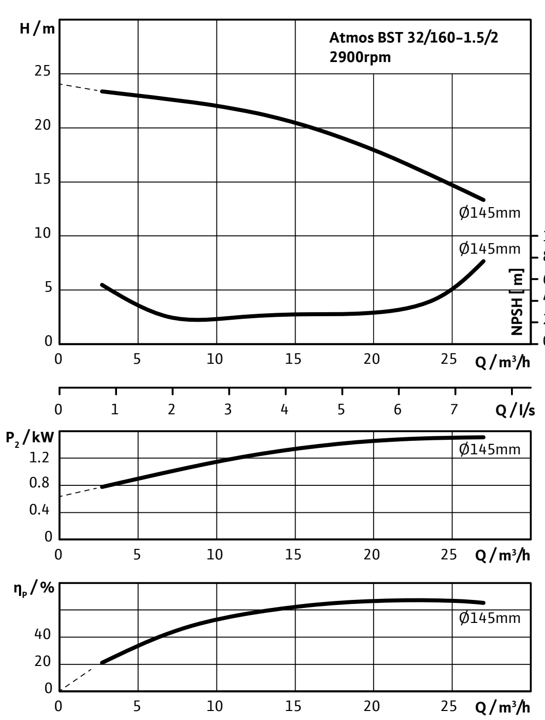
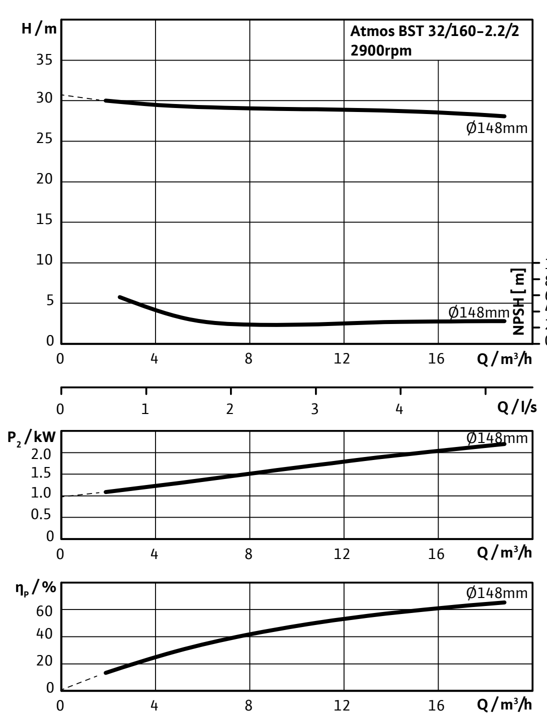


Wilo-Atmos BST 32/160-2.2/2

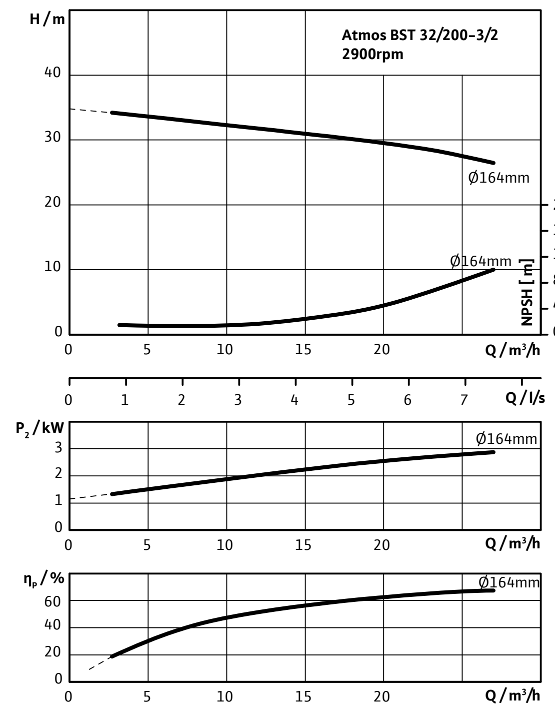
2900 rpm



Pump curves

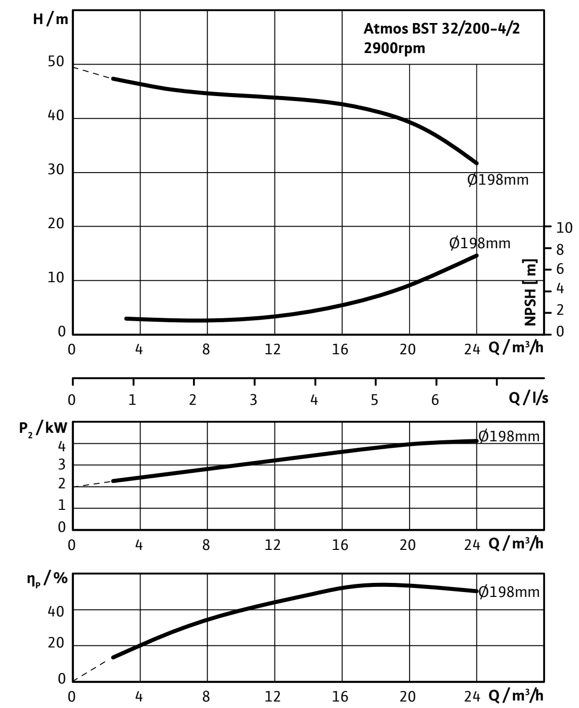
Wilo-Atmos BST 32/200-3/2

2900 rpm



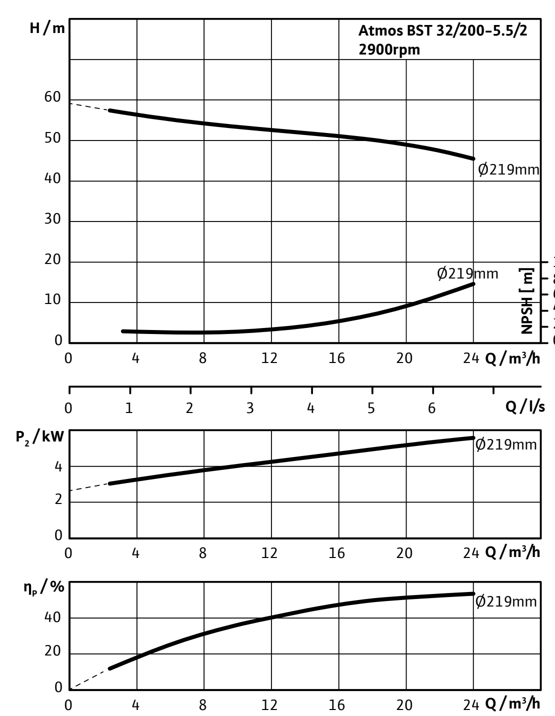
Wilo-Atmos BST 32/200-4/2

2900 rpm



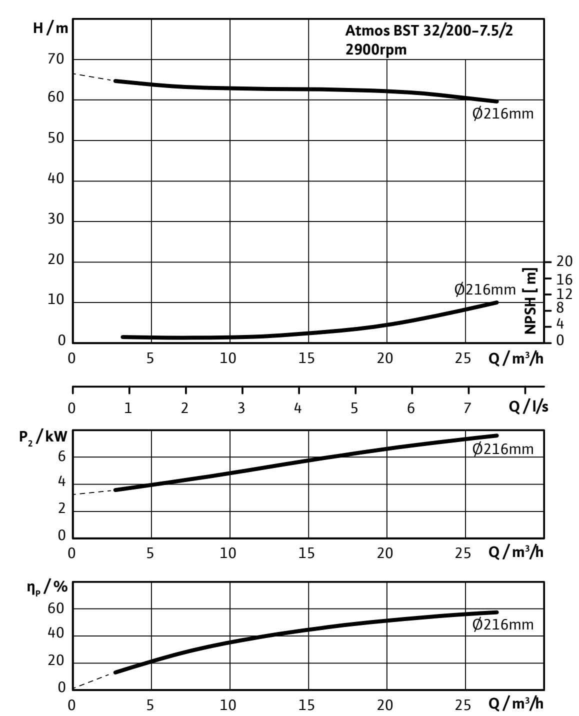
Wilo-Atmos BST 32/200-5.5/2

2900 rpm



Wilo-Atmos BST 32/200-7.5/2

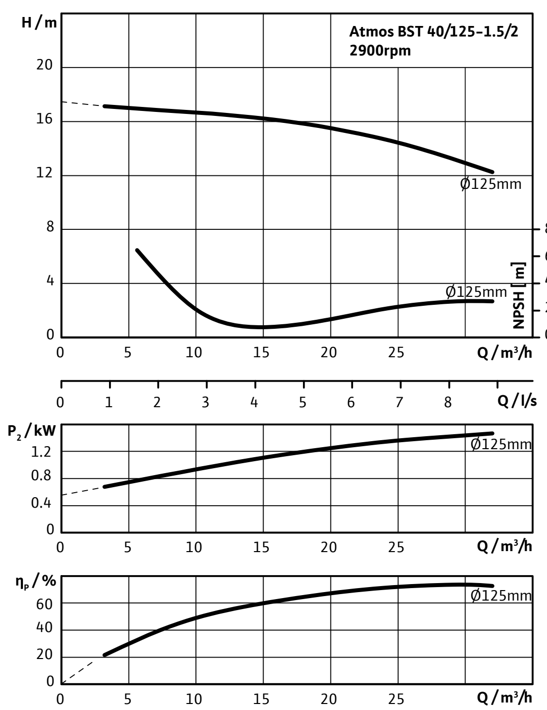
2900 rpm



Pump curves

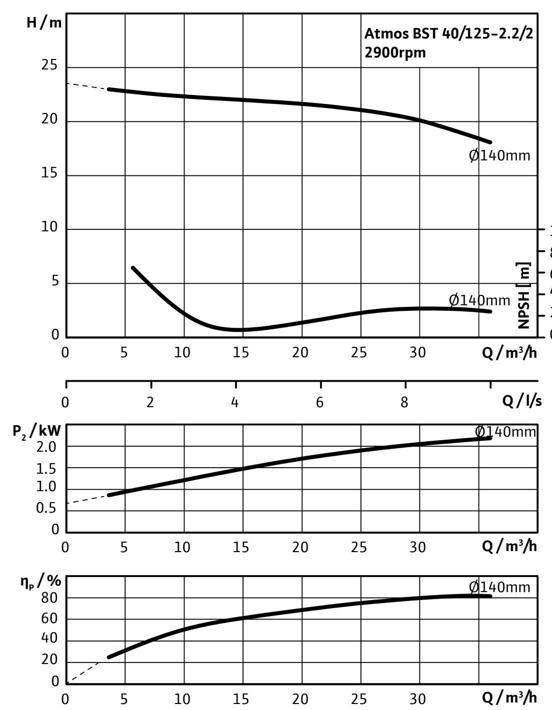
Wilo-Atmos BST 40/125-1.5/2

2900 rpm



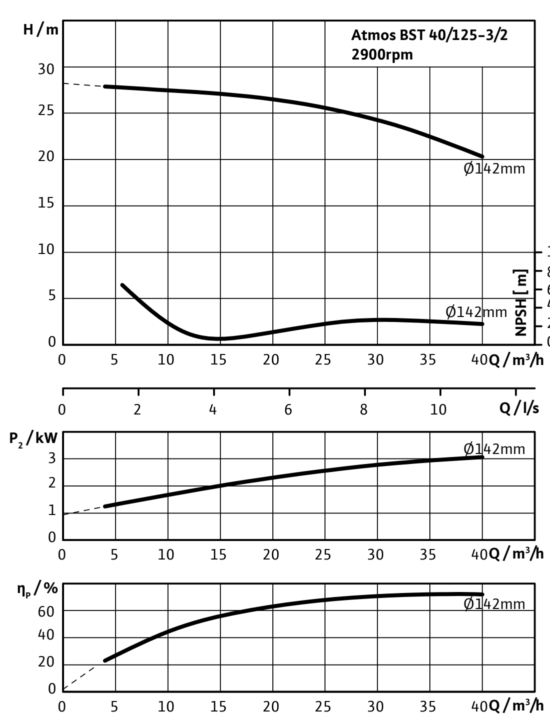
Wilo-Atmos BST 40/125-2.2/2

2900 rpm



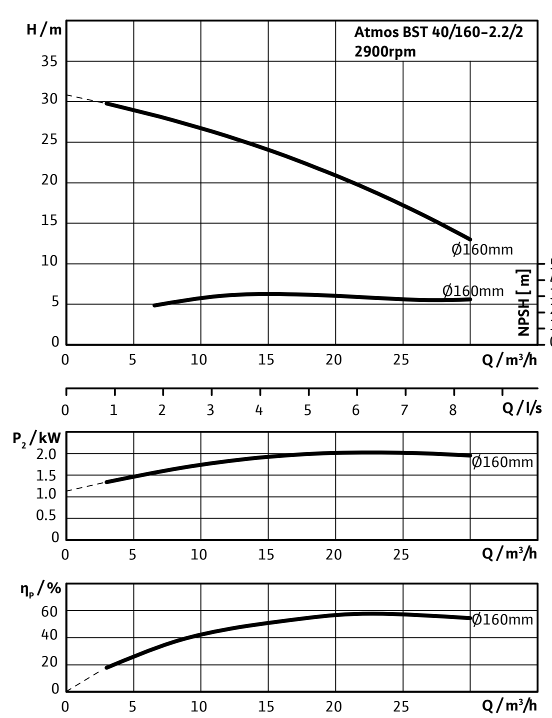
Wilo-Atmos BST 40/125-3/2

2900 rpm



Wilo-Atmos BST 40/160-2.2/2

2900 rpm



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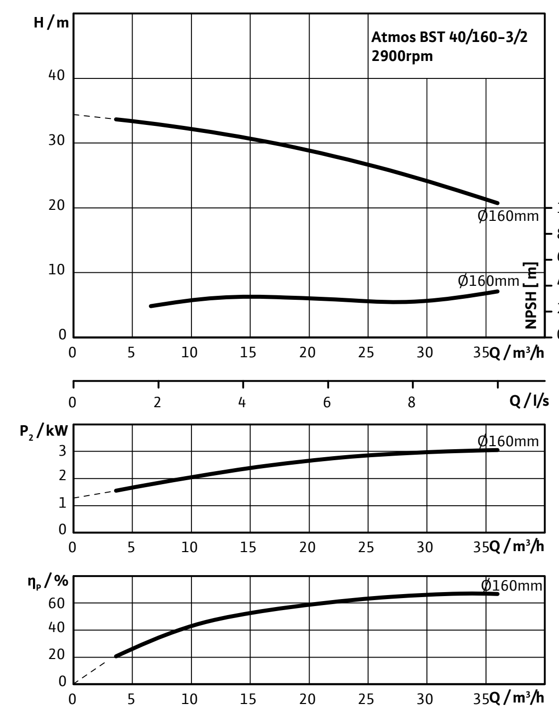
Pump curves

Wilo-Atmos BST 40/160-3/2

2900 rpm



Wilo-Atmos BST 40/160-4/2

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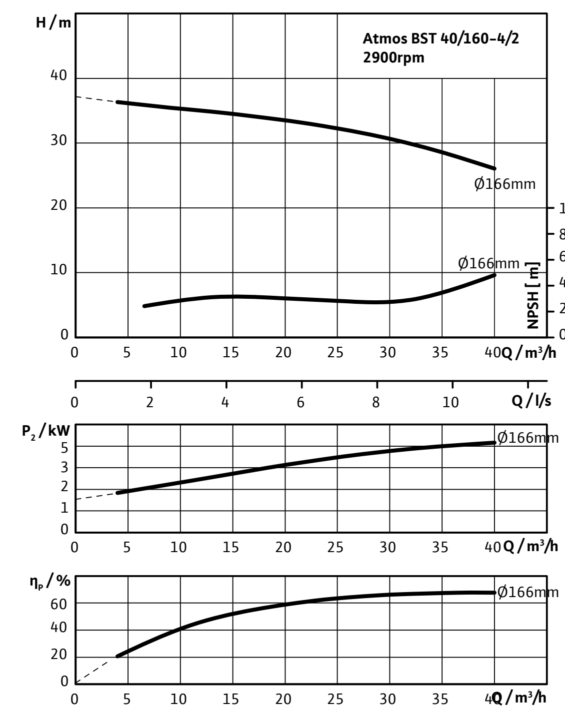
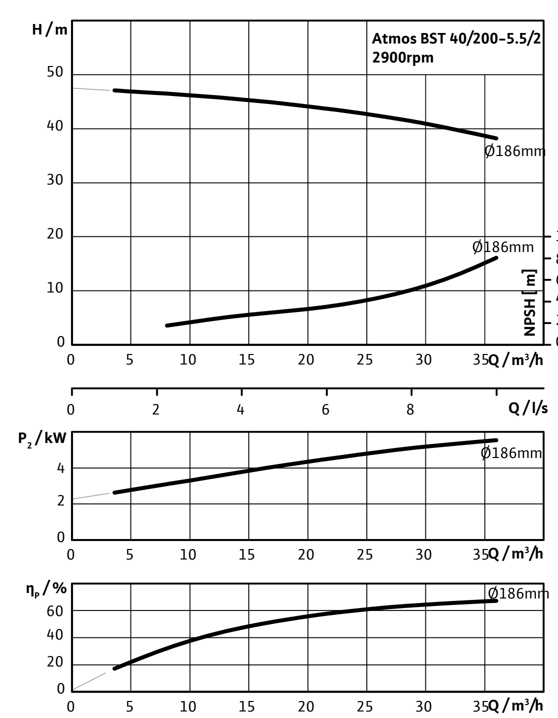


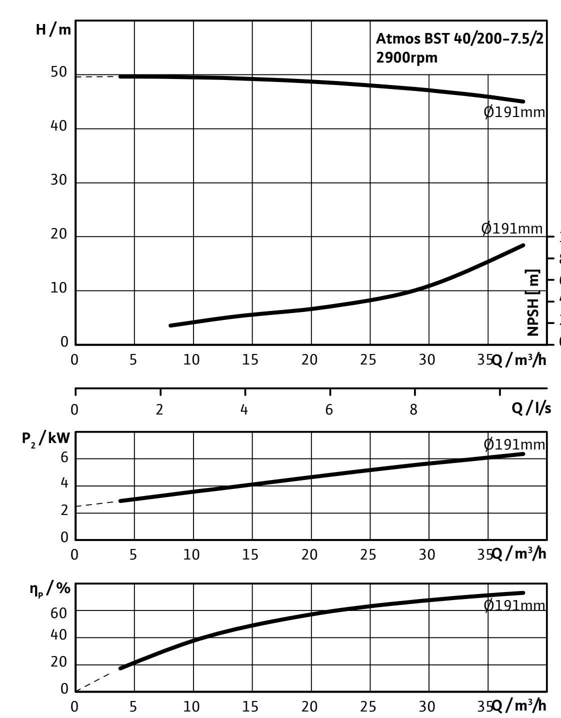
Wilo-Atmos BST 40/200-5.5/2

2900 rpm



Wilo-Atmos BST 40/200-7.5/2

2900 rpm



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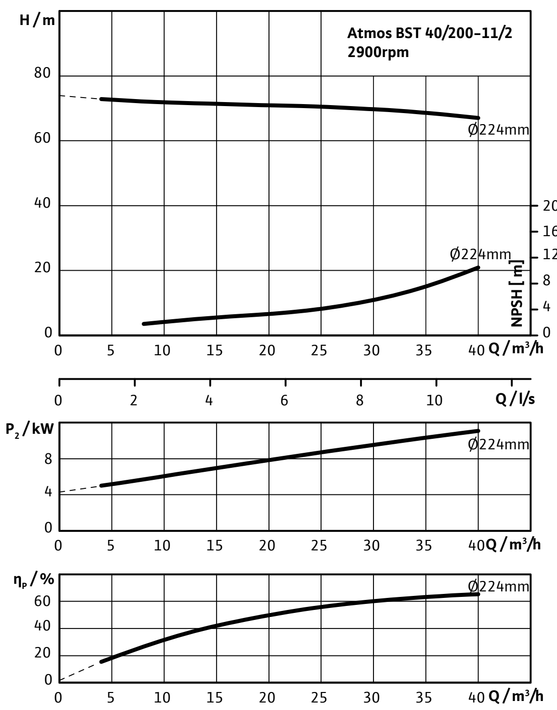
Pump curves

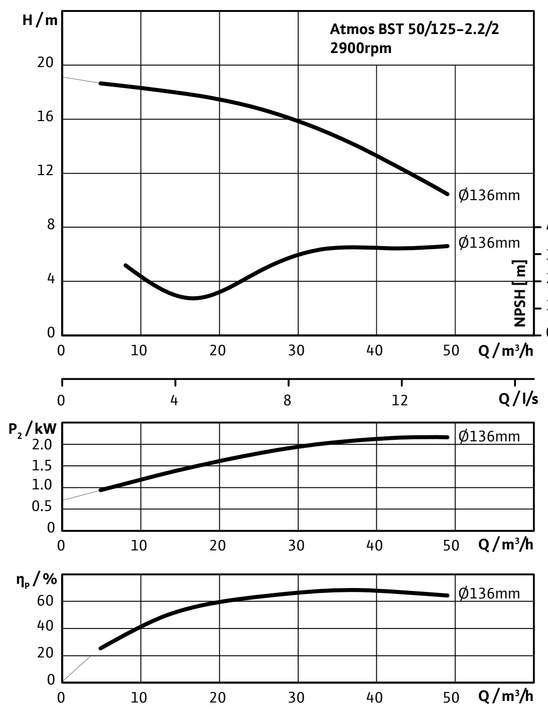
Wilo-Atmos BST 40/200-11/2

2900 rpm



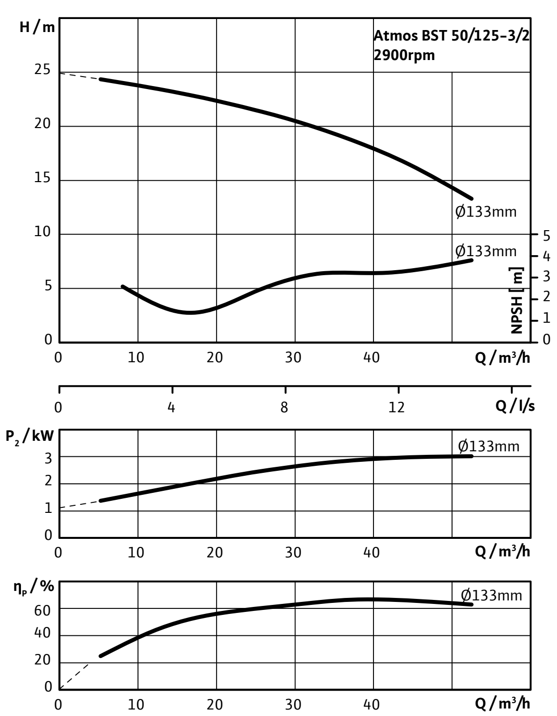
Wilo-Atmos BST 50/125-2.2/2

2900 rpm



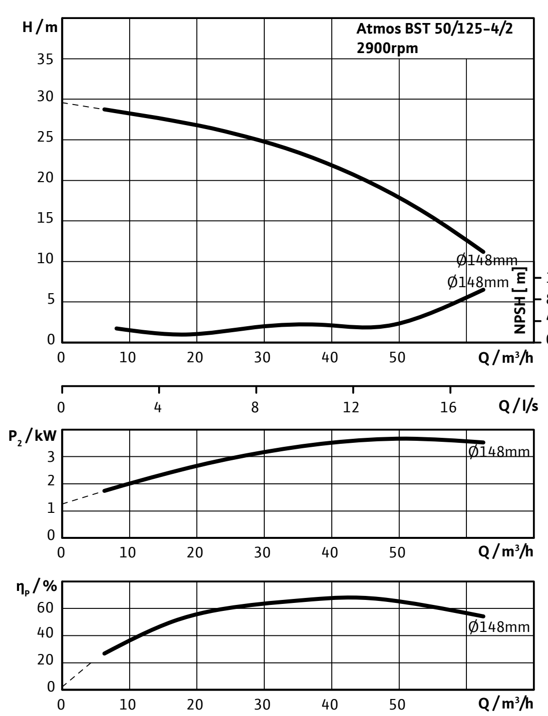
Wilo-Atmos BST 50/125-3/2

2900 rpm



Wilo-Atmos BST 50/125-4/2

2900 rpm



Pump curves

Wilo-Atmos BST 50/160-3/2

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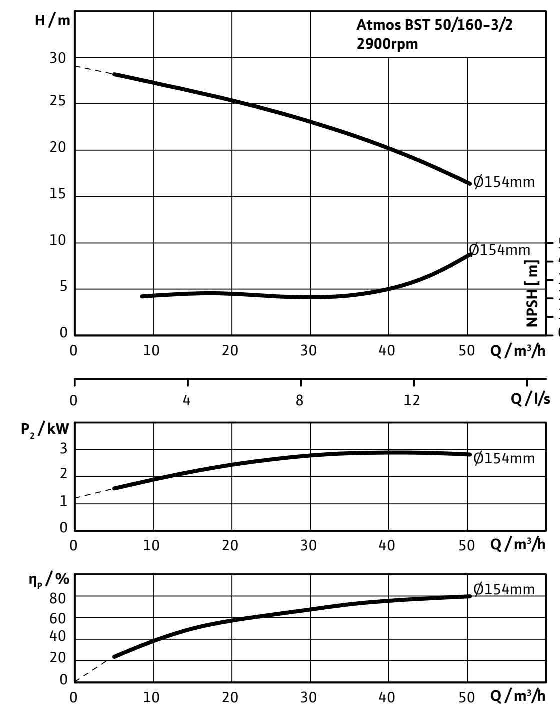

Wilo-Atmos BST 50/160-4/2

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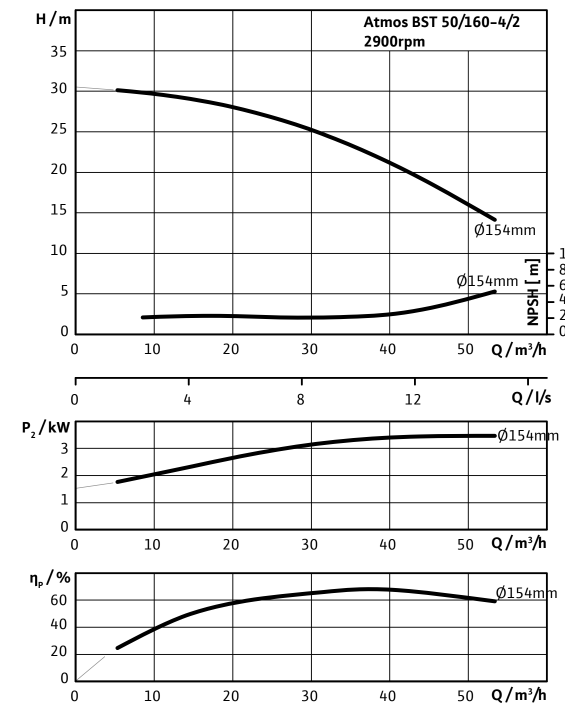

Wilo-Atmos BST 50/160-5.5/2

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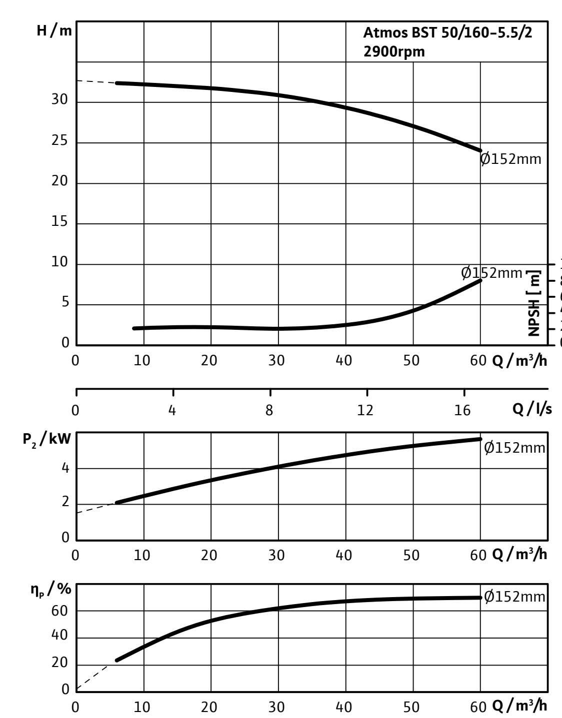

Wilo-Atmos BST 50/200-7.5/2

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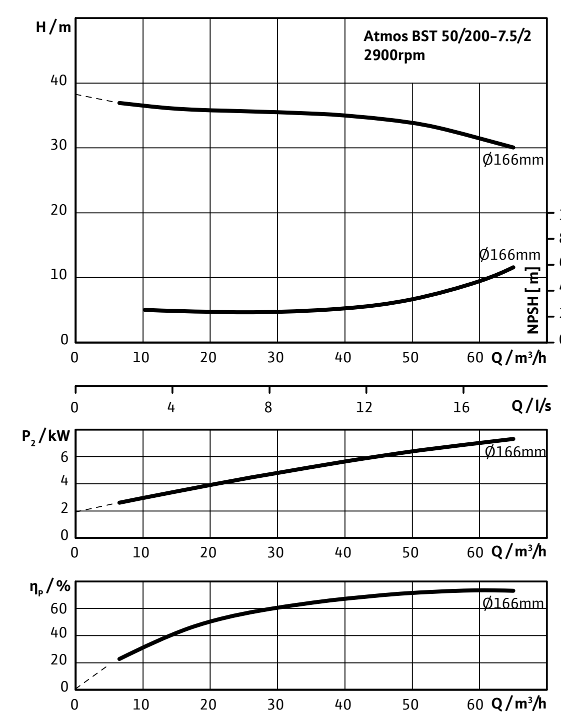

Pump curves

Wilo-Atmos BST 50/200-9.2/2

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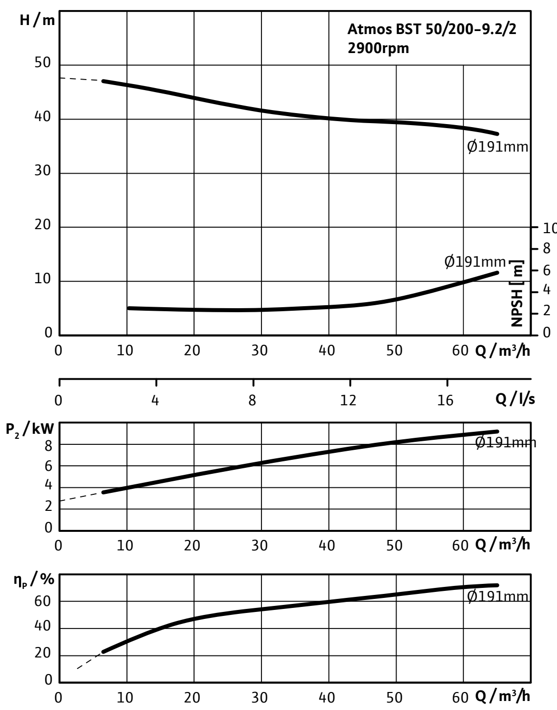
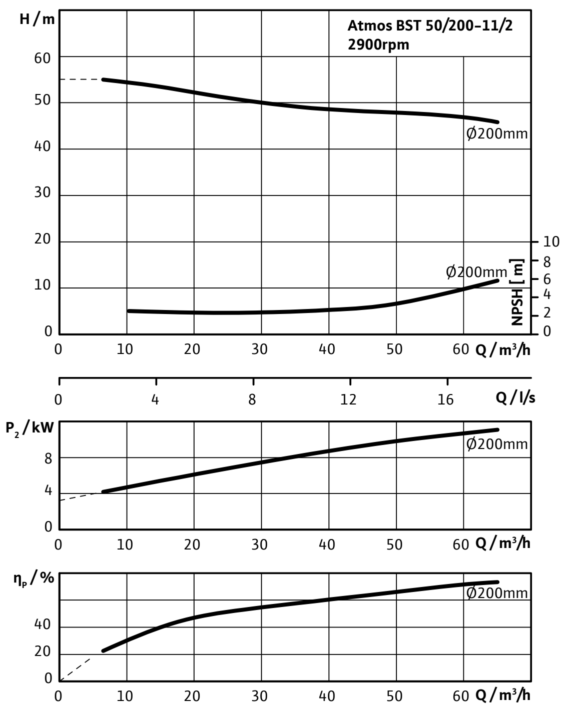


Wilo-Atmos BST 50/200-11/2

2900 rpm



Wilo-Atmos BST 50/200-15/2

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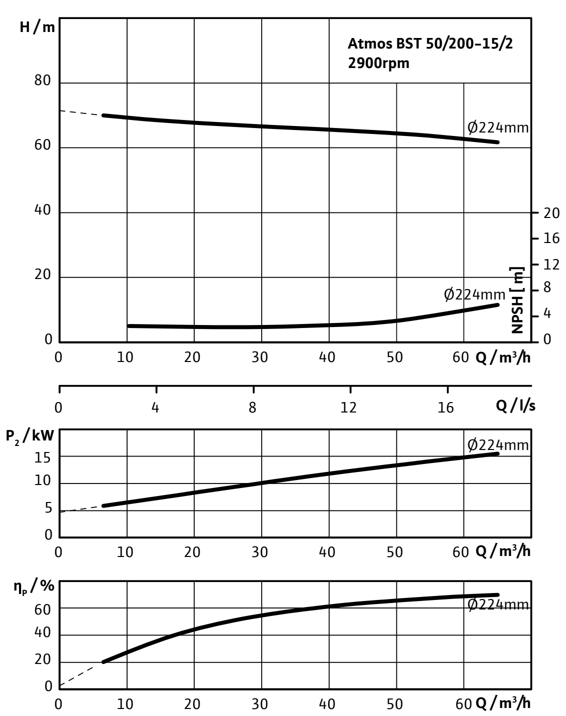
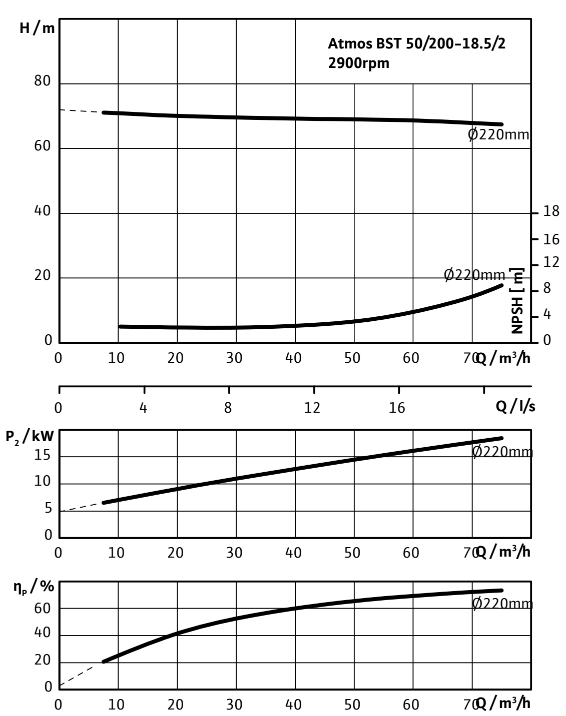


Wilo-Atmos BST 50/200-18.5/2

2900 rpm



Subject to change without prior notice.

Pump curves

Wilo-Atmos BST 65/125-4/2

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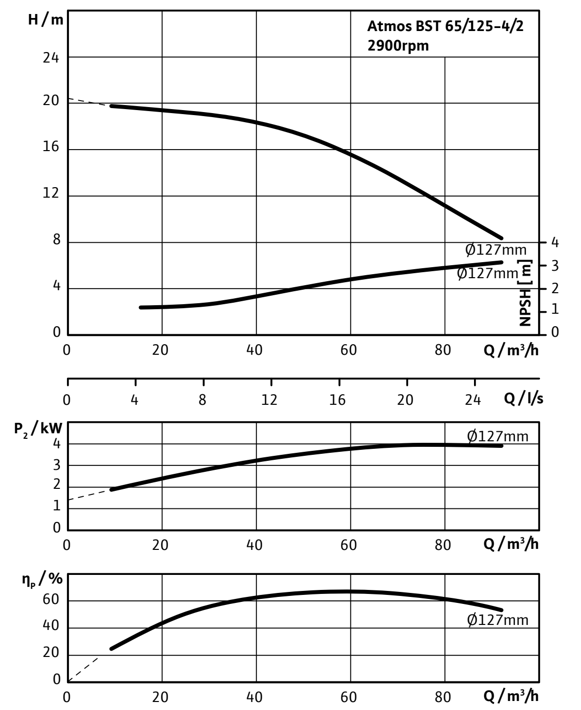

Wilo-Atmos BST 65/125-5.5/2

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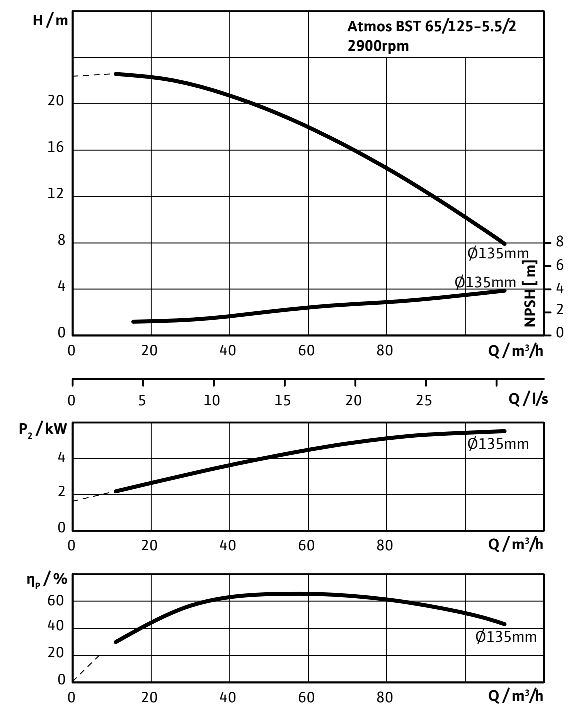

Wilo-Atmos BST 65/125-7.5/2

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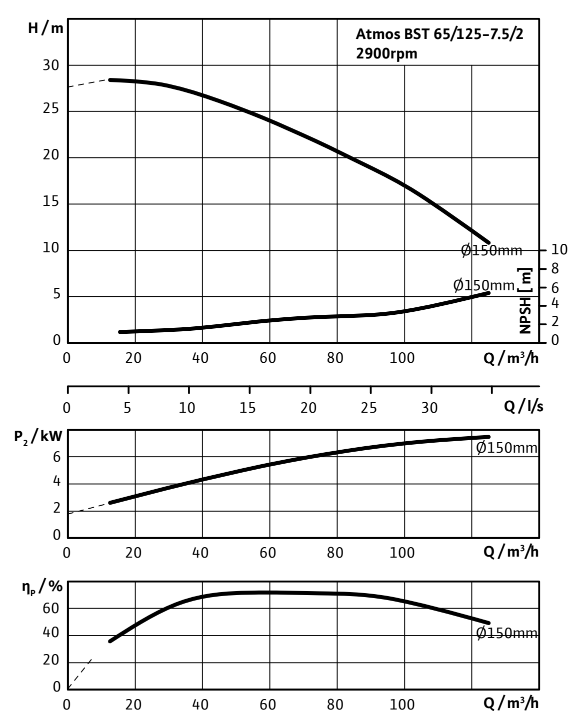

Wilo-Atmos BST 65/125-9.2/2

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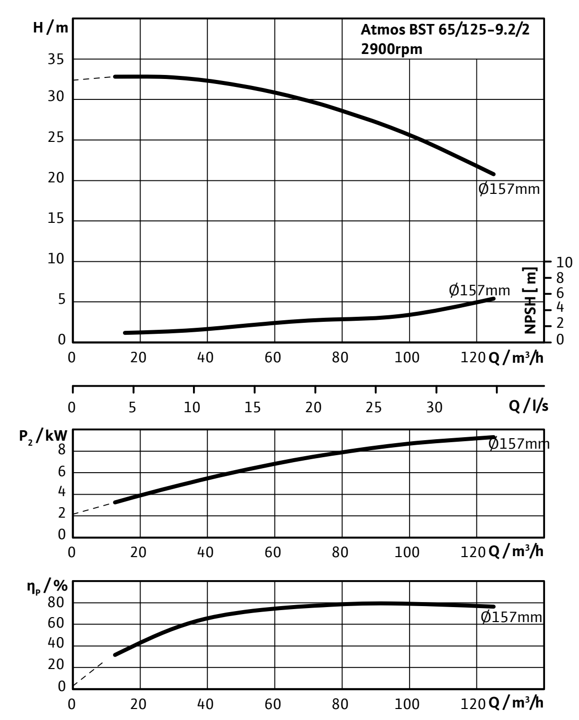

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Pump curves

Wilo-Atmos BST 65/160-11/2

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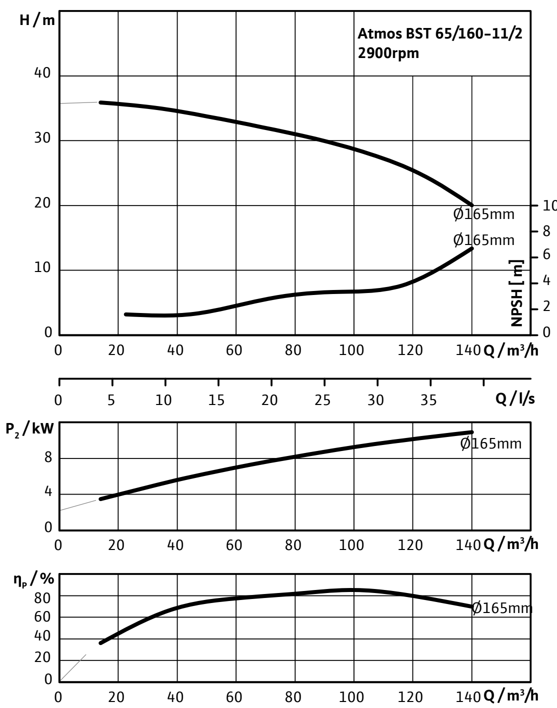

Wilo-Atmos BST 65/160-15/2

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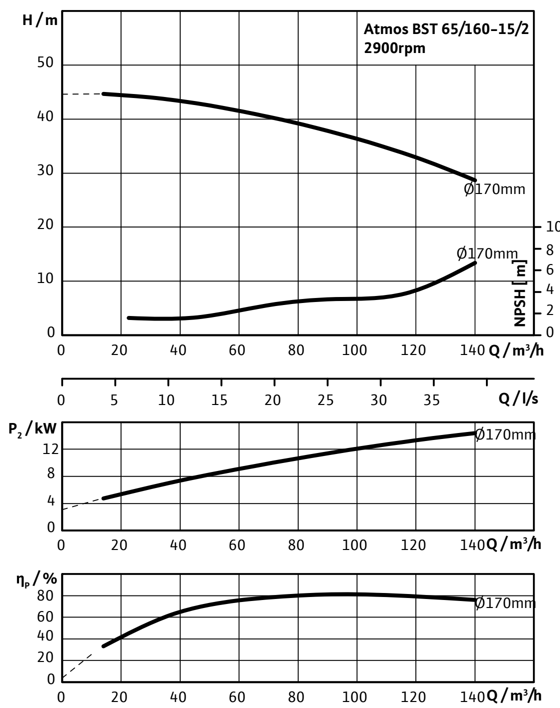

Wilo-Atmos BST 65/200-18.5/2

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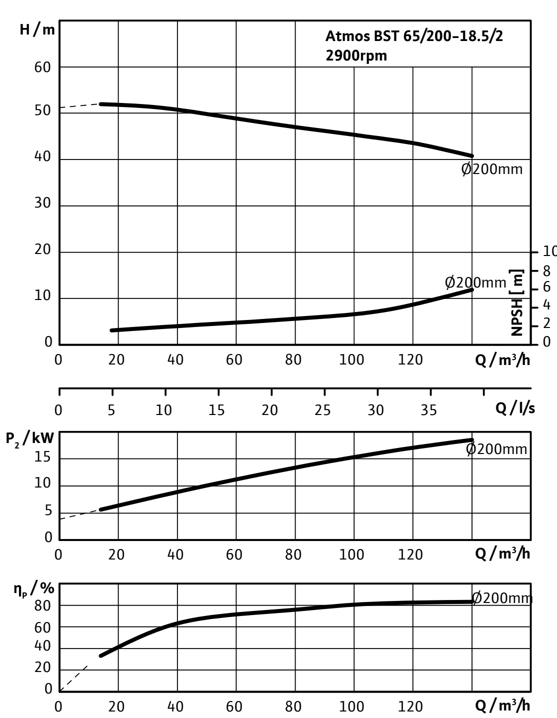

Wilo-Atmos BST 65/200-22/2

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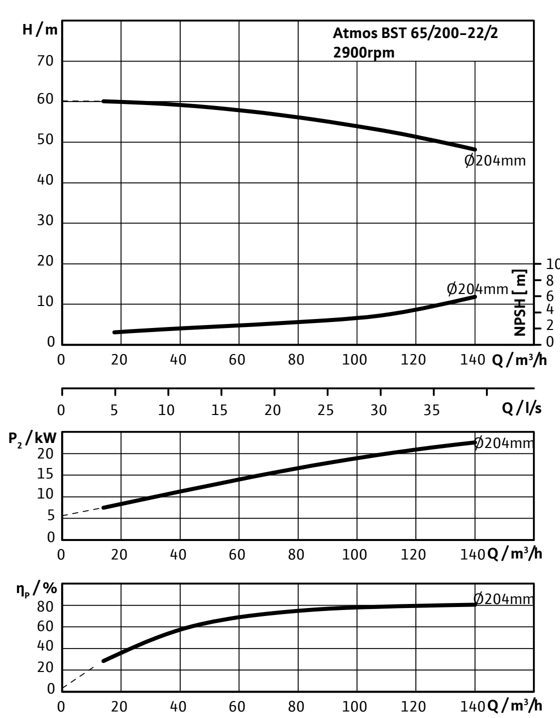

Pump curves

Wilo-Atmos BST 65/200-30/2

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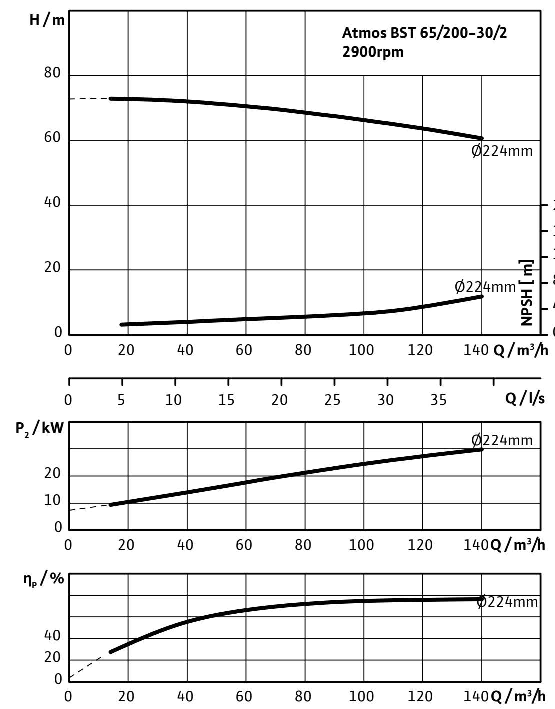
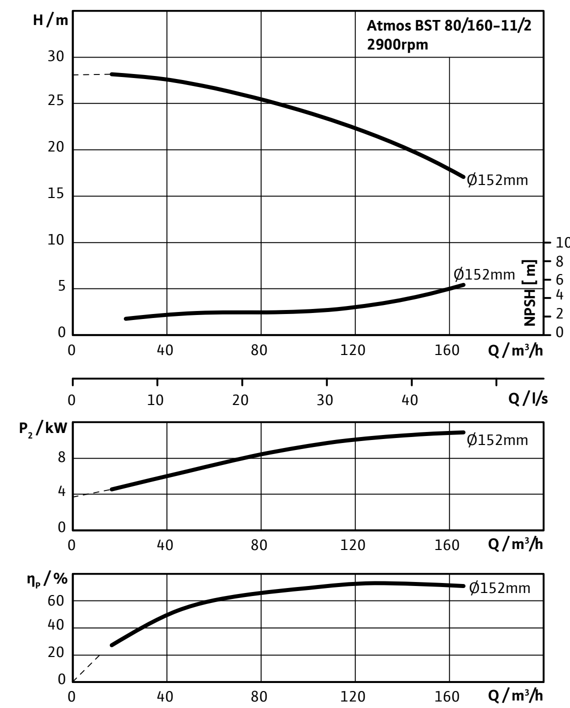


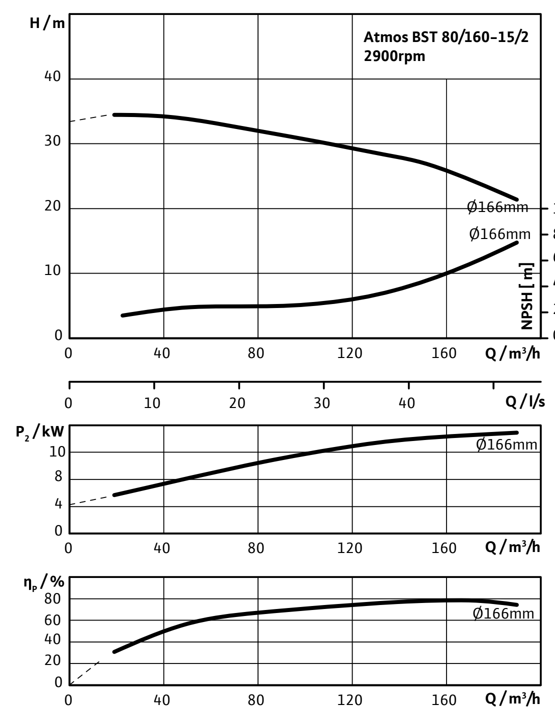
Wilo-Atmos BST 80/160-11/2

2900 rpm



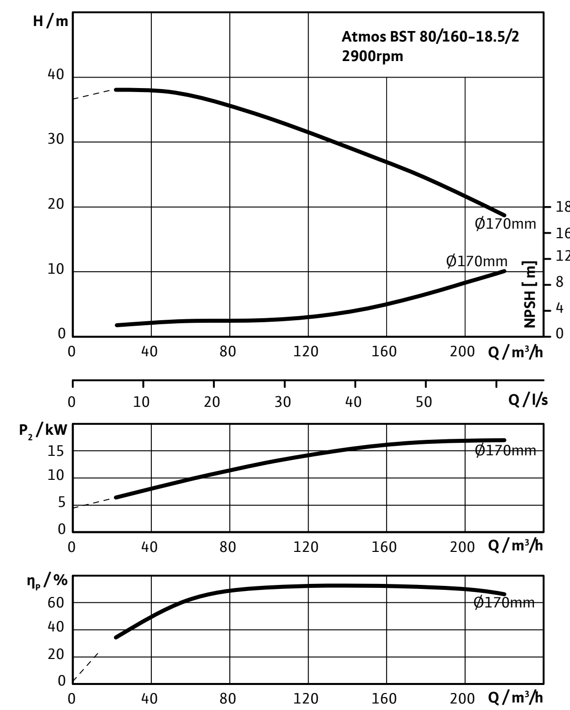
Wilo-Atmos BST 80/160-15/2

2900 rpm



Wilo-Atmos BST 80/160-18.5/2

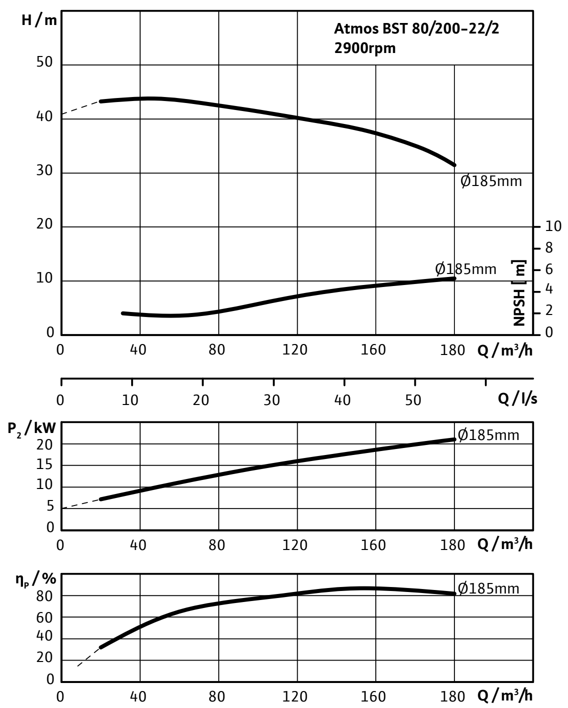
2900 rpm



Pump curves

Wilo-Atmos BST 80/200-22/2

2900 rpm



Wilo-Atmos BST 80/200-30/2

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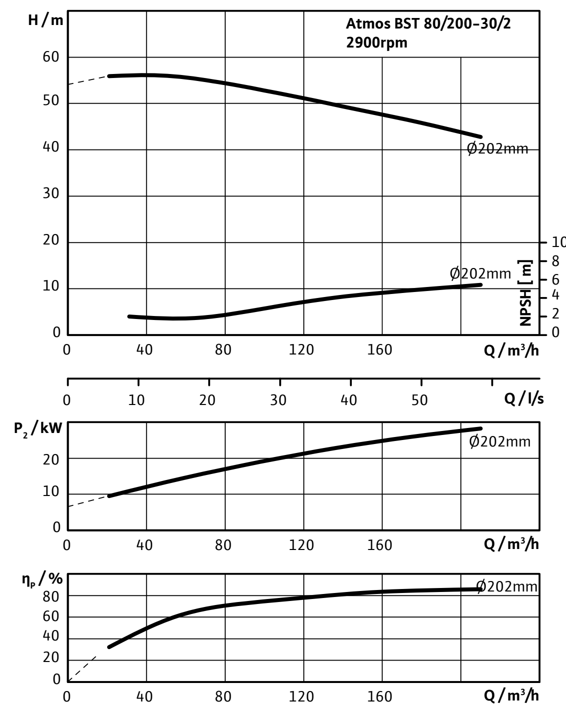
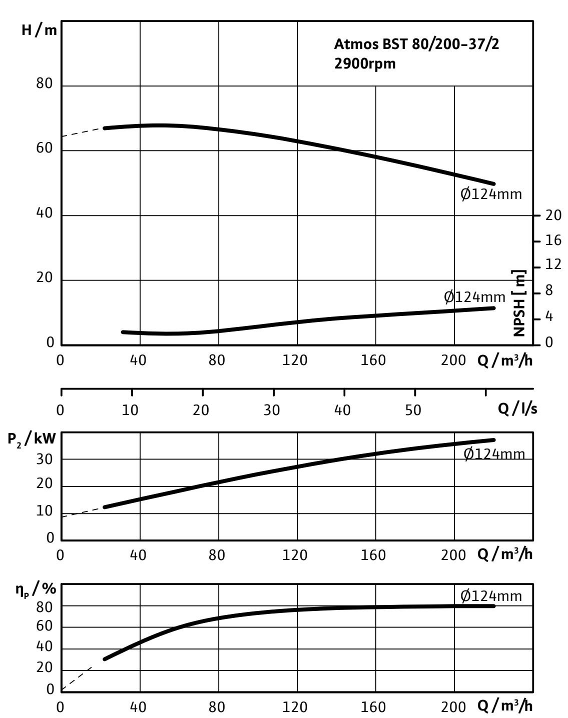


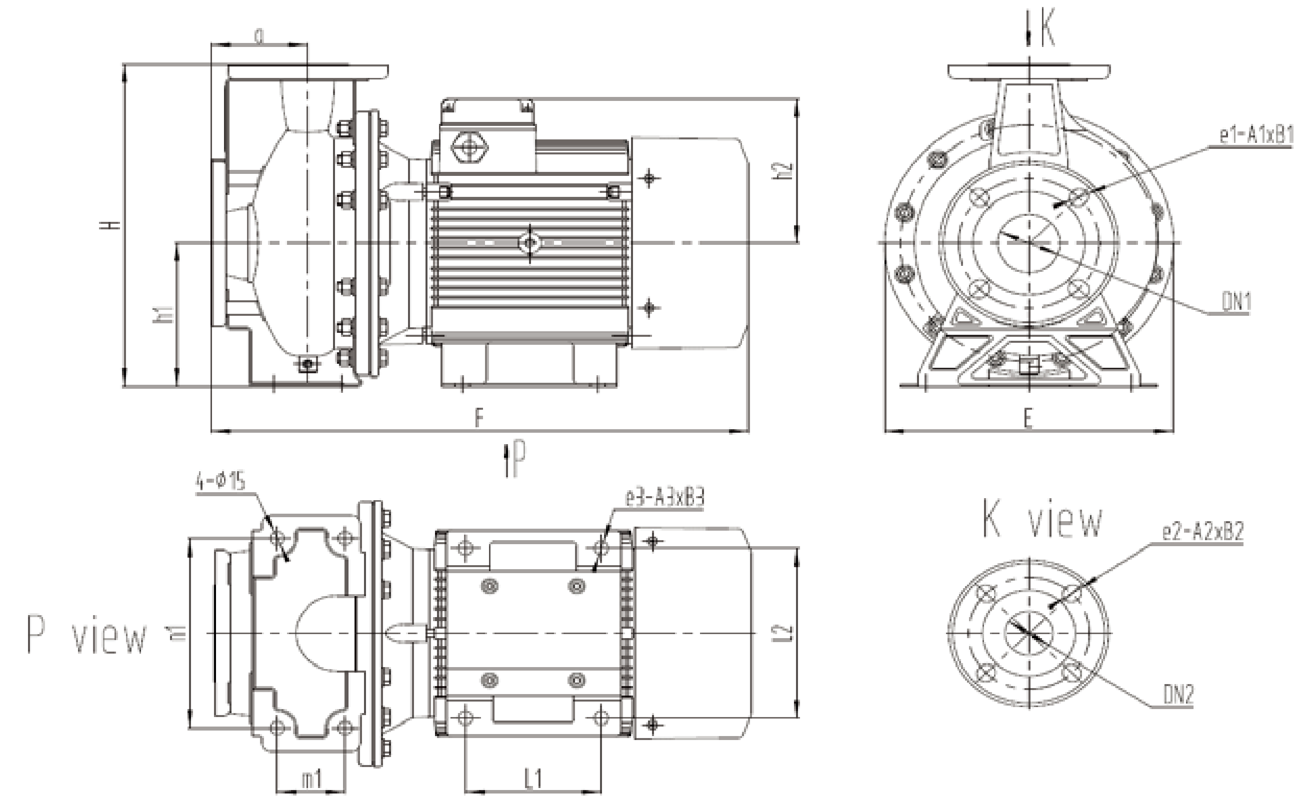
Wilo-Atmos BST 80/200-37/2

2900 rpm



Subject to change without prior notice.

Dimensions, weights

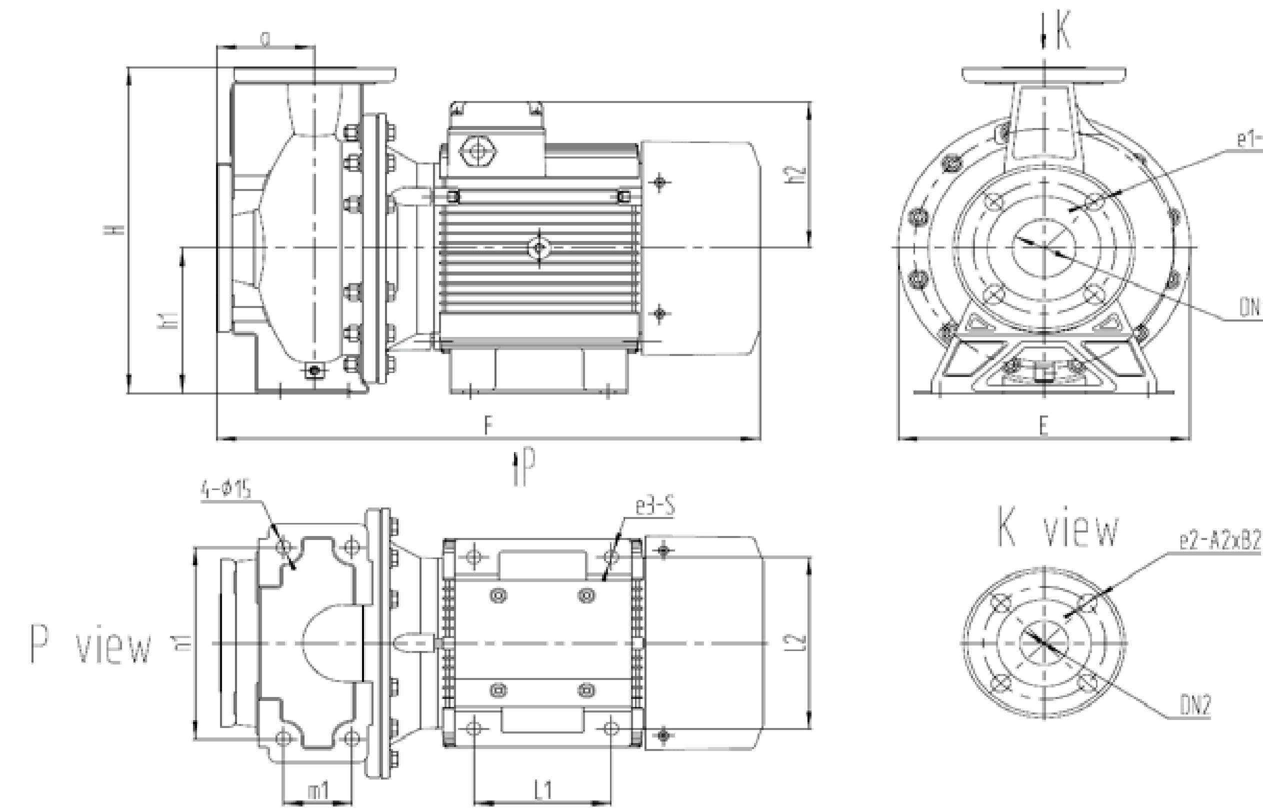


Subject to change without prior notice.

Dimensions, weights

Type	[kw]		[kg]	mm																			mm	
	2900 [RPM]	V	Net Weight	E	F	H	h1	h2	a	m1	n1	L1	L2	e1	A1	B1	e2	A2	B2	e3	A3	B3	DN1	DN2
Atmos BST 32/160-1.1/2-V4	1.1	1-230	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-V4	1.5	1-230	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-V4	2.2	1-230	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	3-400	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	3-400	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	3-400	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	3-400	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	3-400	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	3-400	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	3-400	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-V4	1.5	1-230	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-V4	2.2	1-230	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	3-400	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	3-400	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	3-400	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-V4	2.2	1-230	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	3-400	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	3-400	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	3-400	41	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	3-400	51	298	541	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	3-400	62	298	579	360	160	162	100	70	212	140	190	4	18	20	4	18	20	4	15	20	65	40
Atmos BST 40/200-11/2	11	3-400	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-V4	2.2	1-230	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	3-400	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	3-400	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	3-400	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	3-400	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	3-400	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	3-400	50	298	541	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	3-400	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	3-400	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	3-400	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	3-400	90	298	656	360	160	182	100	70	212	140	216	4	18	20	4	18	20	4	15	20	65	50
Atmos BST 65/125-4/2	4	3-400	43	256	514	340	160	147	100	95	212	140	190	8	18	20	4	18	20	4	15	20	80	65
Atmos BST 65/125-5.5/2	5.5	3-400	53	256	543	340	160	162	100	95	212	140	190	8	18	20	4	18	20	4	15	20	80	65
Atmos BST 65/125-7.5/2	7.5	3-400	65	256	581	340	160	162	100	95	212	140	190	8	18	20	4	18	20	4	15	20	80	65
Atmos BST 65/125-9.2/2	9.2	3-400	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	3-400	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	3-400	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	3-400	83	290	675	405	180	182	125	95	250	140	216	8	18	20	8	18	20	4	15	20	100	80
Atmos BST 80/160-15/2	15	3-400	98	290	716	405	180	182	125	95	250	140	216	8	18	20	8	18	20	4	15	20	100	80

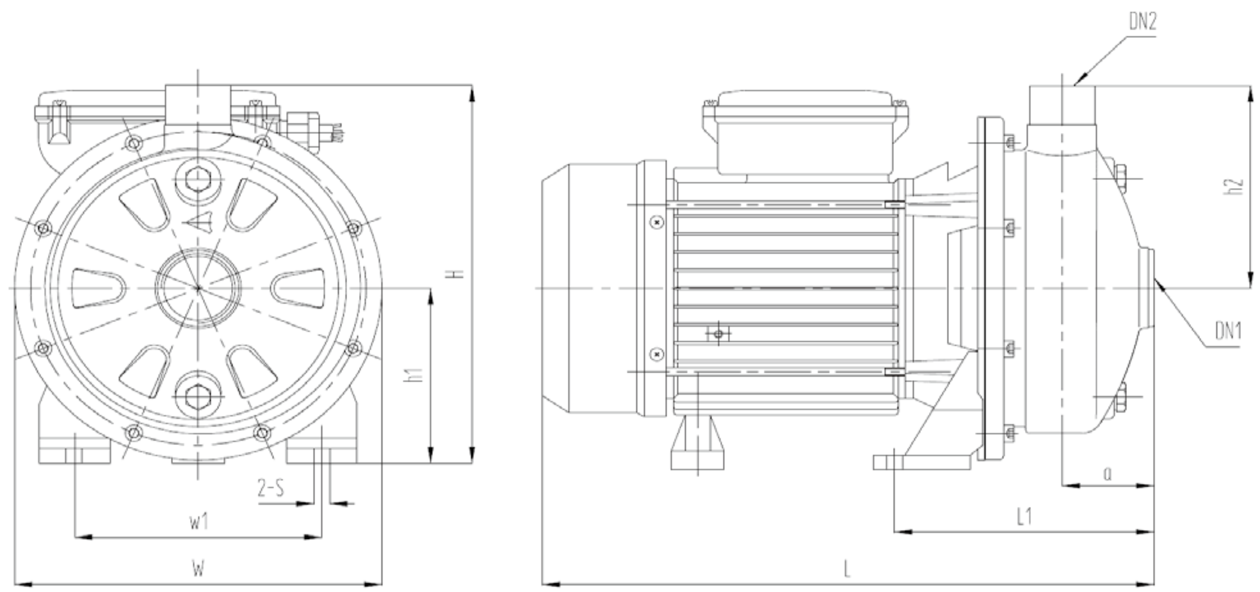
Dimensions, weights



Dimensions, weights

Type	[kw]		[kg]	mm																	mm	
	2900 [RPM]	V	Net Weight	E	F	H	h1	h2	a	m1	n1	L1	L2	e1	A1	B1	e2	A2	B2	e3	S	DN1	DN2
Atmos BST 50/200-18.5/2	18.5	3-400	137.4	320	714	360	160	255	100	70	212	254	254	4	18	20	4	18	20	4	φ 15	65	50
Atmos BST 65/200-18.5/2	18.5	3-400	150	354	717	405	180	255	100	95	250	-	254	8	18	20	4	18	20	2	φ 15	80	65
Atmos BST 65/200-22/2	22	3-400	200	356	776	405	180	270	100	95	250	241	279	8	18	20	4	18	20	4	φ 14.5	80	65
Atmos BST 65/200-30/2	30	3-400	243.6	399	840	425	200	304	100	95	250	305	318	8	18	20	4	18	20	4	φ 18.5	80	65
Atmos BST 80/160-18.5/2	18.5	3-400	146.8	354	769	405	180	255	125	95	250	-	254	8	18	20	8	18	20	2	φ 15	100	80
Atmos BST 80/200-22/2	22	3-400	178	356	811	430	180	270	125	95	280	241	279	8	18	20	8	18	20	4	φ 14.5	100	80
Atmos BST 80/200-30/2	30	3-400	222	399	880	450	200	304	125	95	280	305	318	8	18	20	8	18	20	4	φ 18.5	100	80
Atmos BST 80/200-37/2	37	3-400	267	399	880	450	200	304	125	95	280	305	318	8	18	20	8	18	20	4	φ 18.5	100	80

Dimensions, weights



Dimensions, weights

Type	[kw]		[kg]	mm									mm	
	2900 [RPM]		Net Weight	L	L1	W	w1	H	h1	h2	a	S	DN1	DN2
Atmos BST 25/130-0.55/2-V4	0.55	1-230	8.9	322	146	208	120	227	106	121	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/160-0.75/2-V4	0.75	1-230	9.8	322	146	208	120	227	106	121	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/160-1/2-V4	1	1-230	10.6	322	146	208	120	227	106	121	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/130-0.75/2-V4	0.75	1-230	9.6	322	146	208	120	227	106	121	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/160-1.1/2-V4	1.1	1-230	13	347	148	208	120	227	106	121	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/180-1.85/2-V4	1.85	1-230	16.3	362	148	230	140	247	118	129	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/130-1.1/2-V4	1.1	1-230	12.8	347	148	208	140	227	106	121	53	φ 9	G1$^{1}/_{2}$	G1
Atmos BST 25/160-1.85/2-V4	1.85	1-230	15.2	362	148	208	140	235	106	121	53	φ 9	G1$^{1}/_{2}$	G1
Atmos BST 25/180-2.2/2-V4	2.2	1-230	22.9	377	162	230	140	255	118	129	53	10	G1$^{1}/_{2}$	G1
Atmos BST 25/130-0.55/2	0.55	3-400	8.2	322	146	208	120	227	106	121	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/160-0.75/2	0.75	3-400	8.3	322	146	208	120	227	106	121	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/160-1/2	1	3-400	9.8	322	146	208	120	227	106	121	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/130-0.75/2	0.75	3-400	8.7	322	146	208	120	227	106	121	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/160-1.1/2	1.1	3-400	9.8	347	148	208	120	227	106	121	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/180-1.85/2	1.85	3-400	14.6	347	148	230	140	247	118	129	53	φ 9	G1 $^{1}/_{4}$	G1
Atmos BST 25/130-1.1/2	1.1	3-400	11	347	148	208	140	227	106	121	53	φ 9	G1$^{1}/_{2}$	G1
Atmos BST 25/160-1.85/2	1.85	3-400	14	347	148	208	140	227	106	121	53	φ 9	G1$^{1}/_{2}$	G1
Atmos BST 25/180-2.2/2	2.2	3-400	22.9	377	162	230	140	247	118	129	53	10	G1$^{1}/_{2}$	G1

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