



REGENERATIVE BLOWER

Vacuum &
Pressure



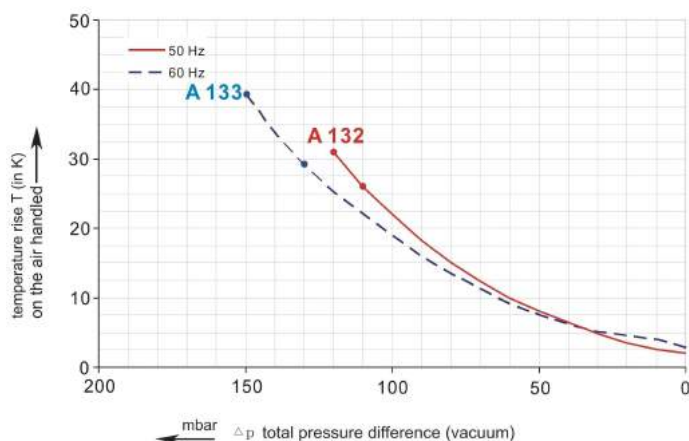
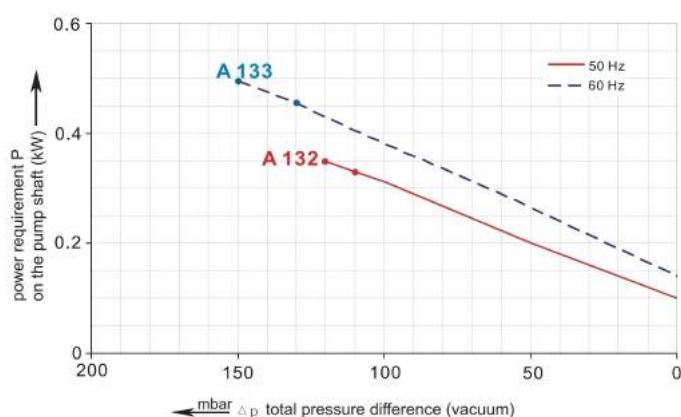
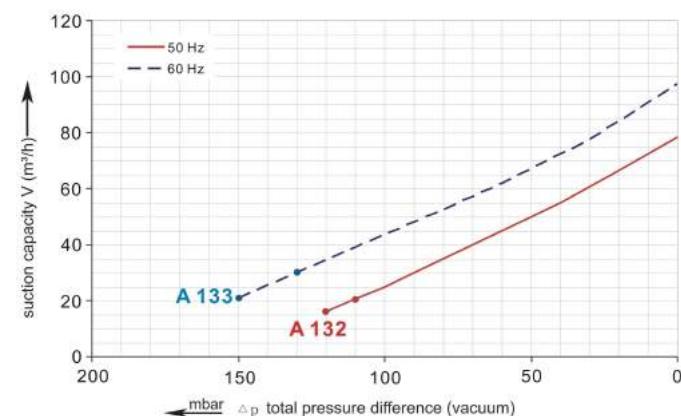
Data sheet ISS-100

Side channel blower with IE1-motors

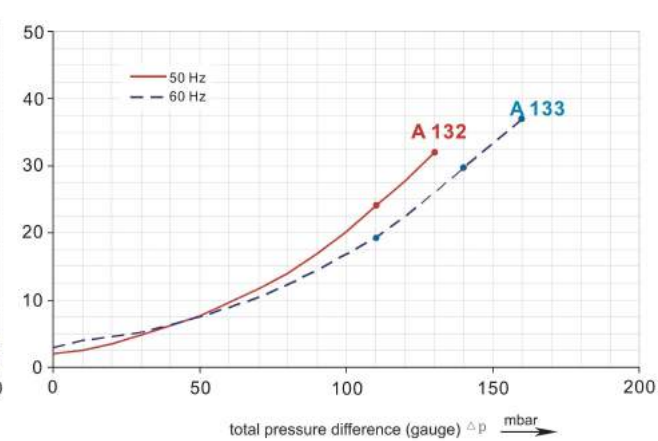
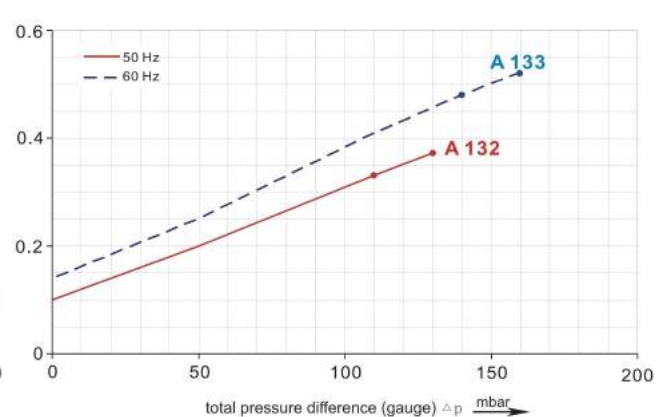
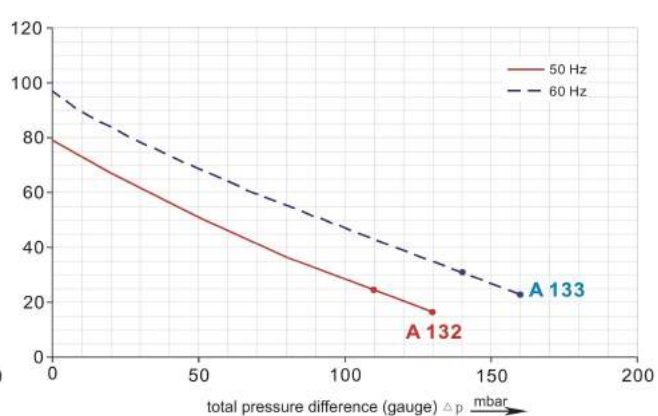


Performance curves

Vacuum operation



Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

Each ISS type can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and protection category IP 55 as well as approved for UL and CSA.

Selection and ordering data											
Type ISS-100											
Curve No.	Order No.	Fre- quency	Rated power	Input voltage		Input current		Permissible total differential pressure ²⁾		Sound pressure level ³⁾	Weight ca.
		Hz	kW								
3~ 50/60 Hz IP55 isolation material class F 1)											
A 132	ISS-100	50	0.4	200D ... 240D	345Y...415Y	2.6D	1.5Y	-120	130	53	10
A 133	ISS-100	60	0.5	220D ... 275D	380Y...480Y	2.6D	1.5Y	-150	160	56	10

All ISS achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

- 1) For standard UL for ELECTRIC MOTOR UL 1004-1.
- 2) Relief-valve are available for limiting differential pressure.
- 3) Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maxium allowed pressure will be used for the continuousoperating then the allowed voltage range add to +/- 10 %. For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.





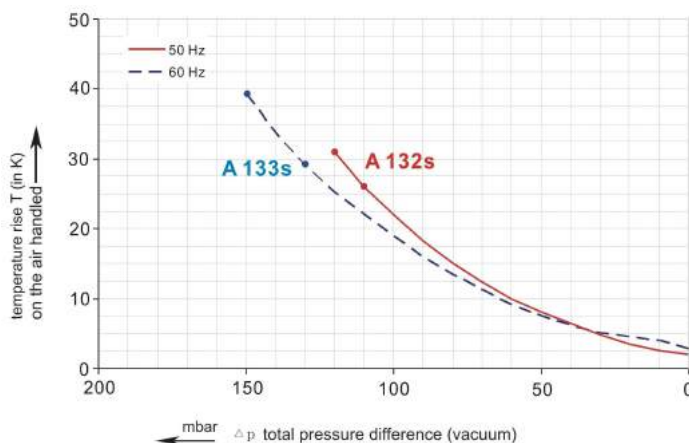
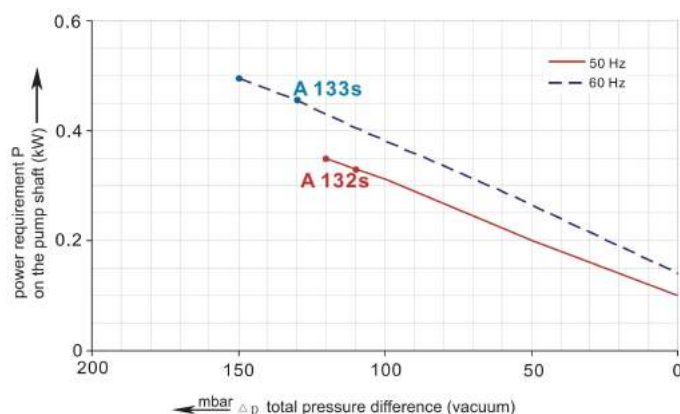
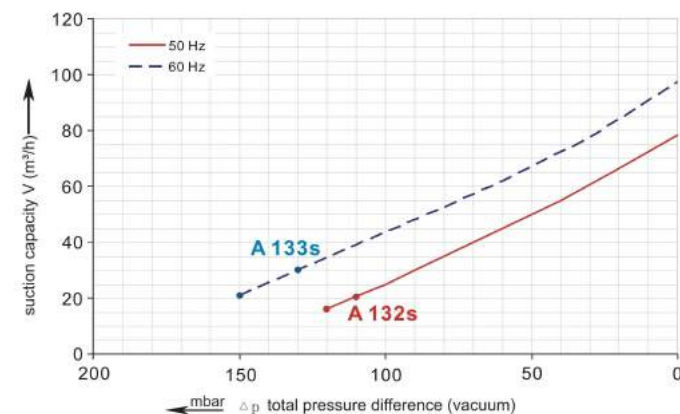
Data sheet ISS-101

Side channel blower with IE1-motors

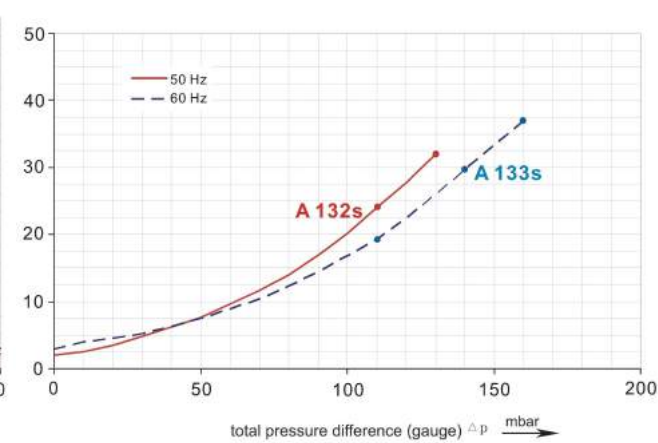
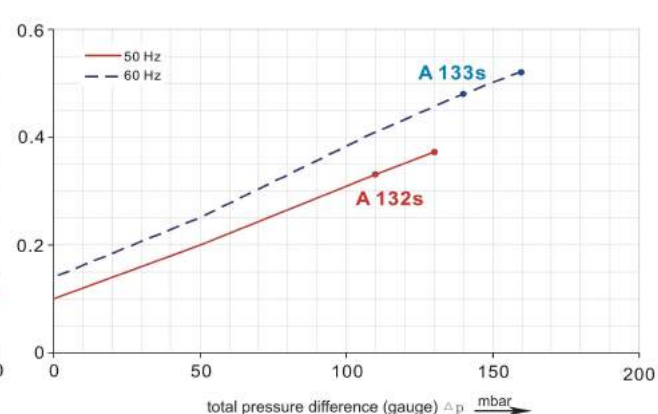
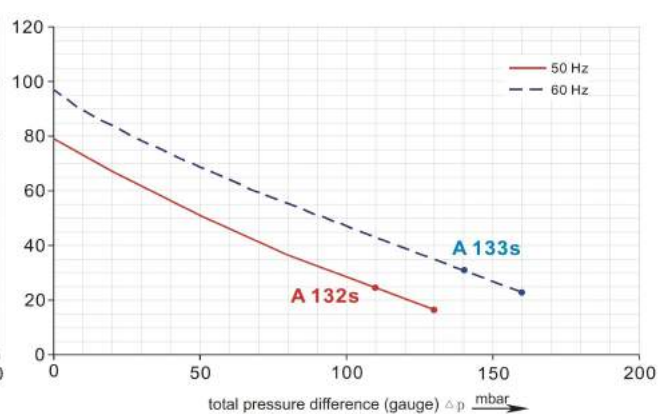


Performance curves

Vacuum operation



Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

Each ISS type can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and protection category IP 55 as well as approved for UL and CSA.

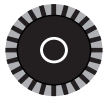
Selection and ordering data											
Type ISS-101											
Curve No.	Order No.	Fre- quency	Rated power	Input voltage		Input current		Permissible total differential pressure ²⁾		Sound pressure level ³⁾	Weight ca.
		Hz	kW	V		A		Vacuum mbar			kg
1~ 50/60 Hz IP55 with attached condenser for continuous operation											
A 132s	ISS-101	50	0.37	230		2.7		-110	110	53	11
A 133s	ISS-101	60	0.45	230		3.0		-130	140	56	11

All ISS achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

- 1) For standard UL for ELECTRIC MOTOR UL 1004-1.
- 2) Relief-valve are available for limiting differential pressure.
- 3) Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %. For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.

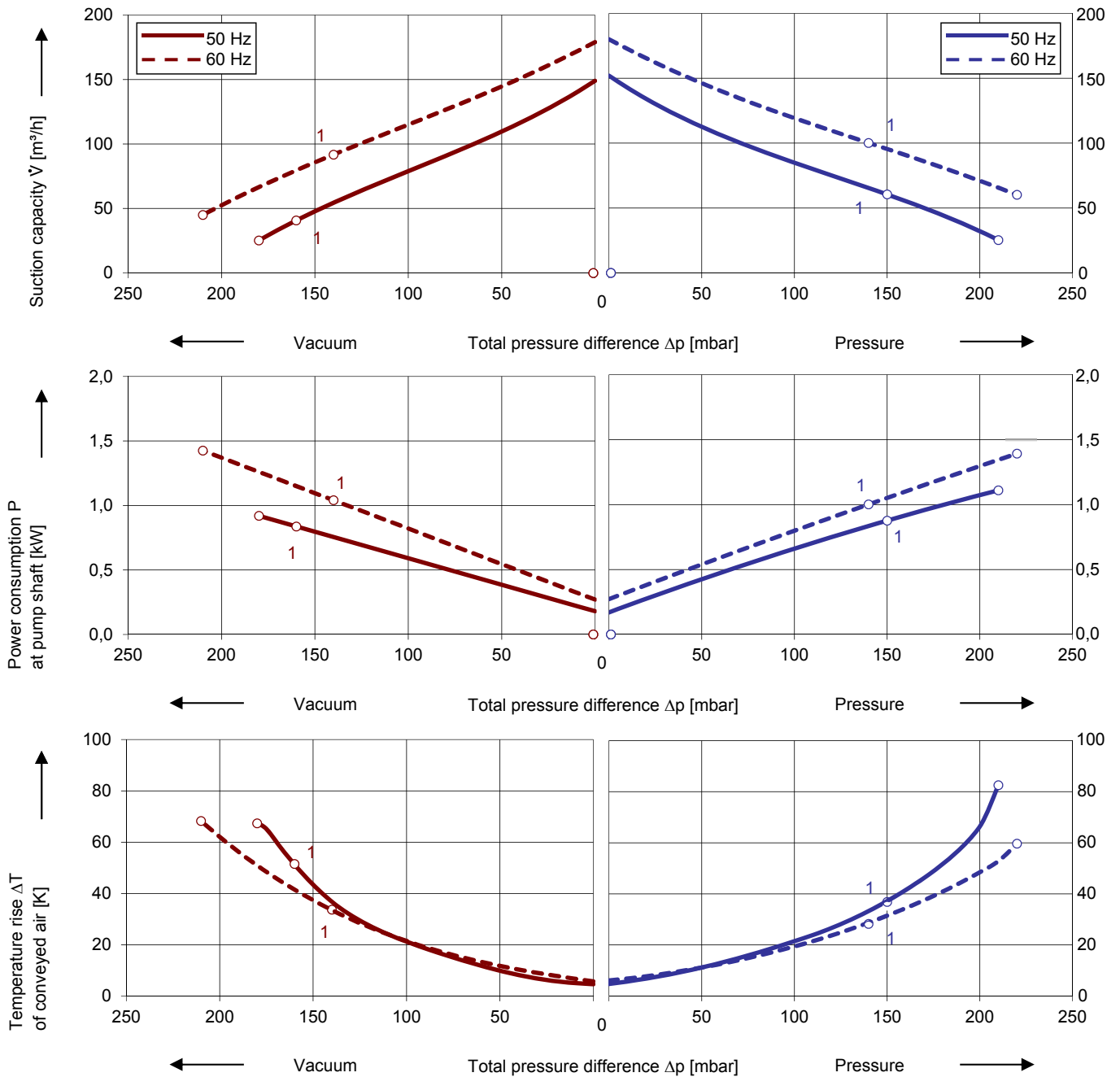




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-200										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	220-240△/380-420Y	3.3△/1.9Y	0.86	-160	150	63	IE3	19	ISS-200
	60	265-290△/460-520Y	3.2△/1.85Y	0.99	-140	140	64	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.





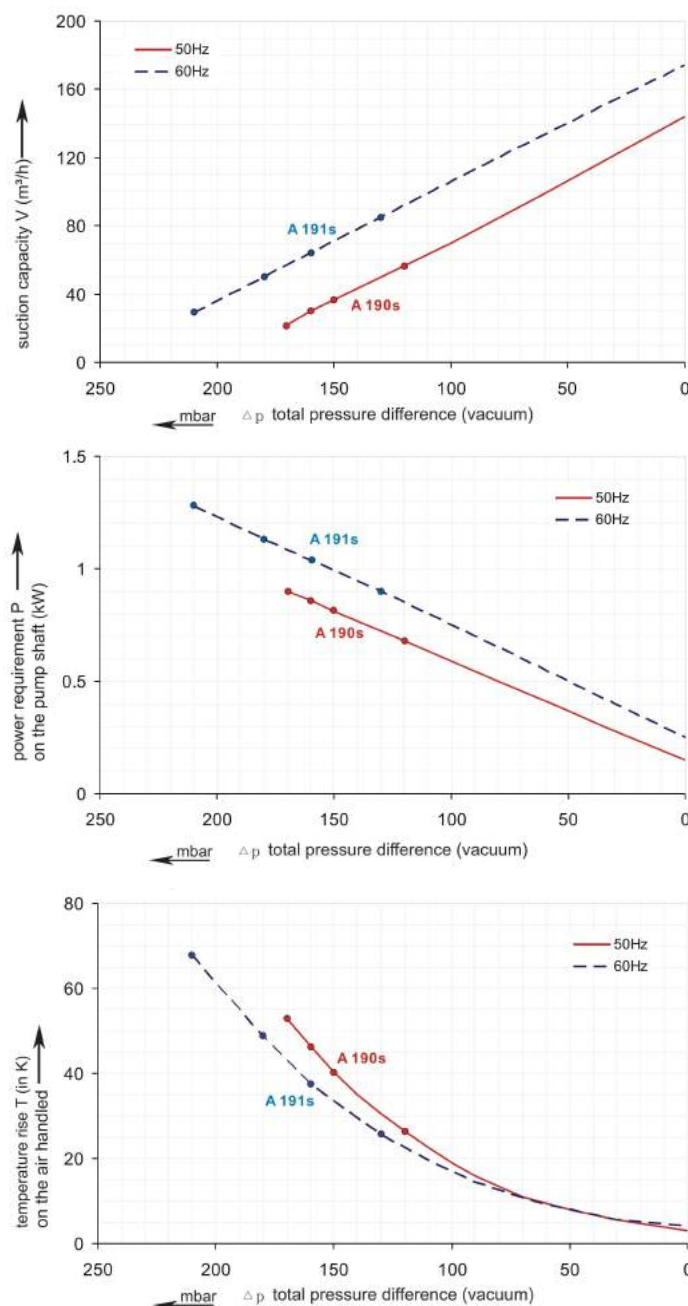
Data sheet ISS-201

Side channel blower with IE1-motors

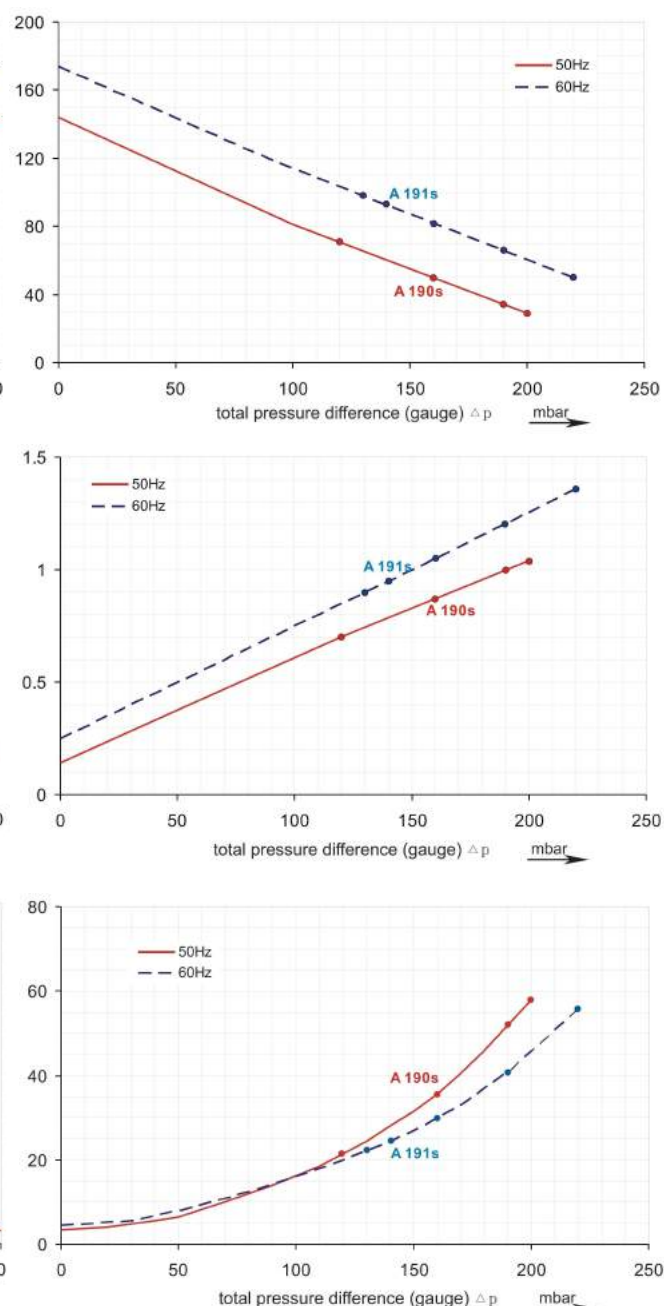


Performance curves

Vacuum operation



Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

Each ISS type can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and protection category IP 55 as well as approved for UL and CSA.

Selection and ordering data											
Type ISS-201											
Curve No.	Order No.	Fre- quency	Rated power	Input voltage		Input current		Permissible total differential pressure ²⁾		Sound pressure level ³⁾	Weight ca.
		Hz	kW	V		A		Vacuum mbar			kg
1~ 50/60 Hz IP55 with attached condenser for continuous operation											
A 190s	ISS-201	50	0.8	230		5.2		-150	160	63	15
A 191s	ISS-201	60	0.9	230		5.8		-160	140	64	15

All ISS achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

- 1) For standard UL for ELECTRIC MOTOR UL 1004-1.
- 2) Relief-valve are available for limiting differential pressure.
- 3) Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %. For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.

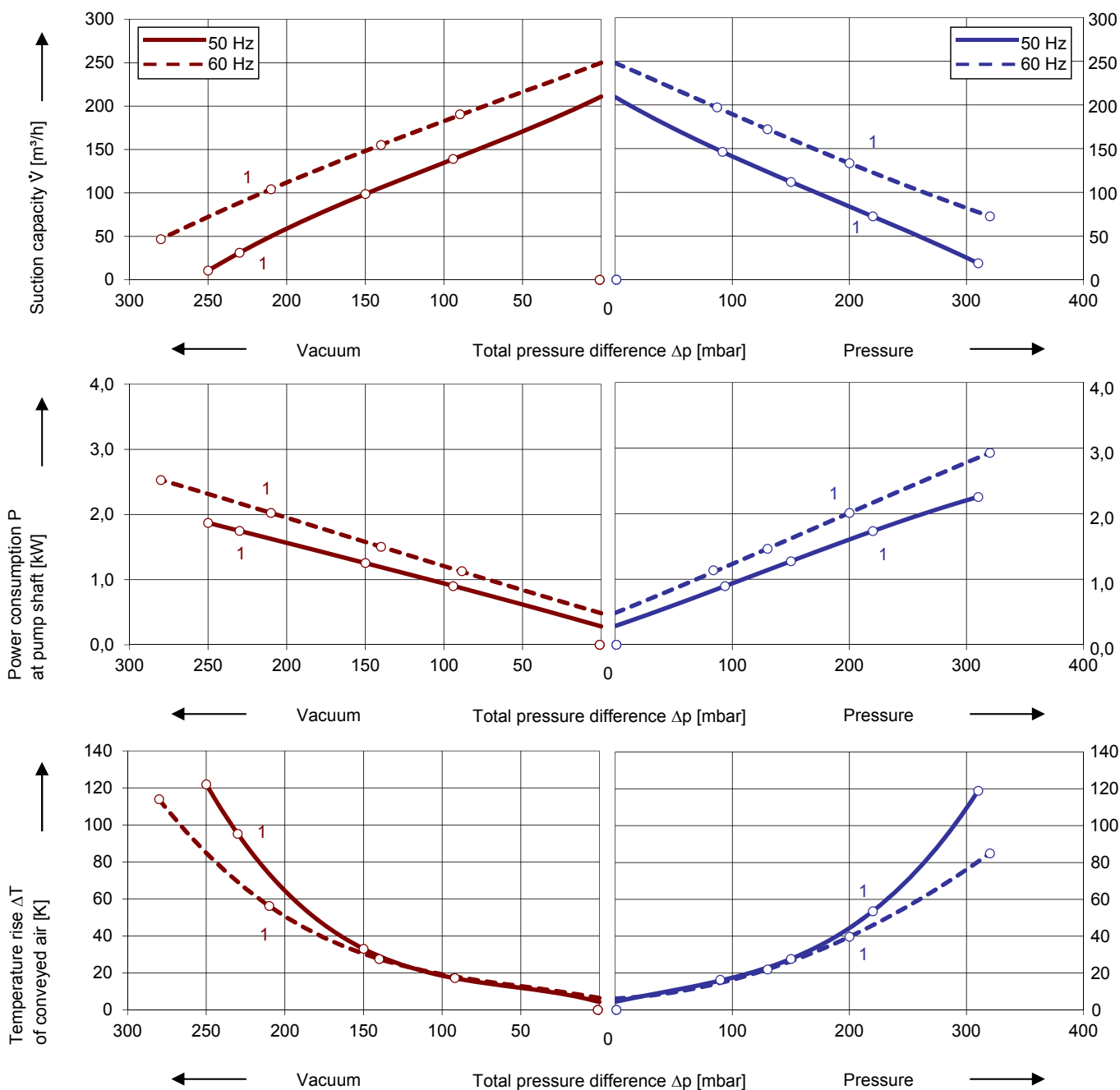




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-300										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)	kg		
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	220-240△/380-420Y	6.0△/3.45Y	1.75	-230	220	64	IE3	32	ISS-300
	60	265-290△/460-520Y	5.9△/3.4Y	2.00	-210	200	70	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.





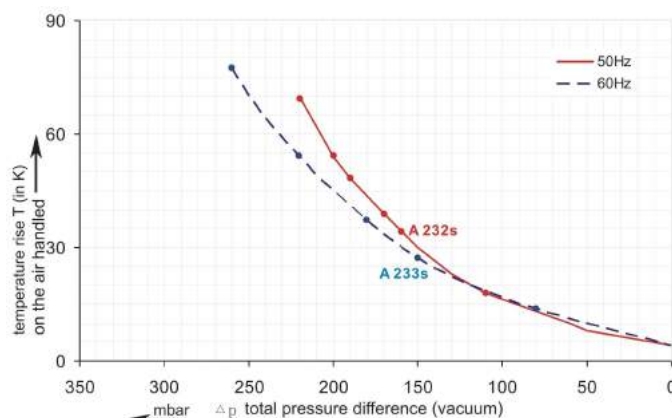
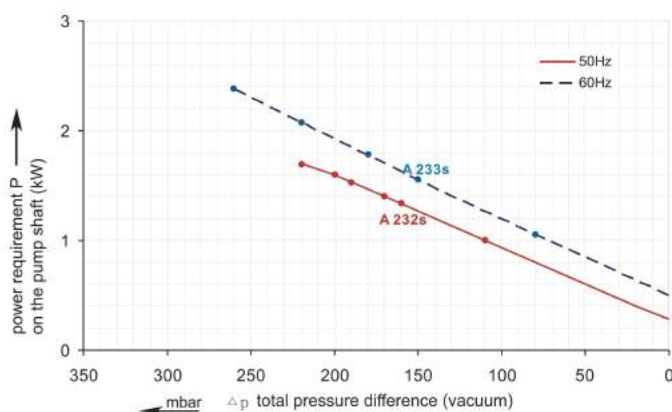
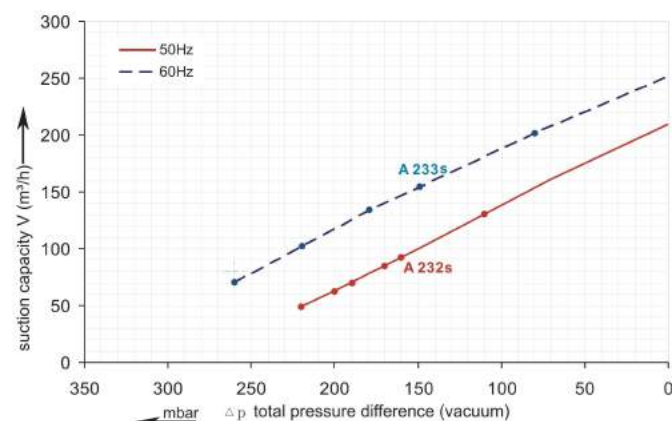
Data sheet ISS-301

Side channel blower with IE1-motors

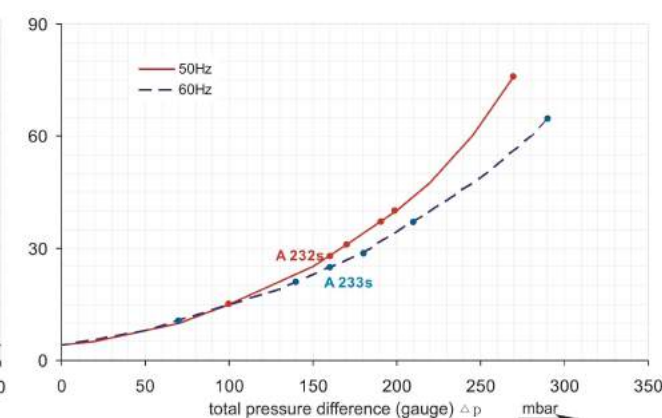
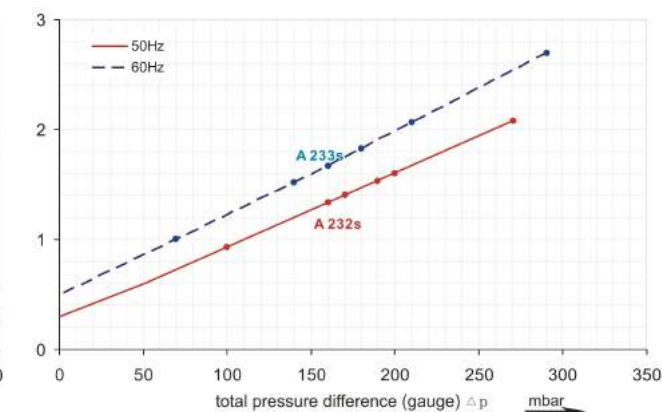
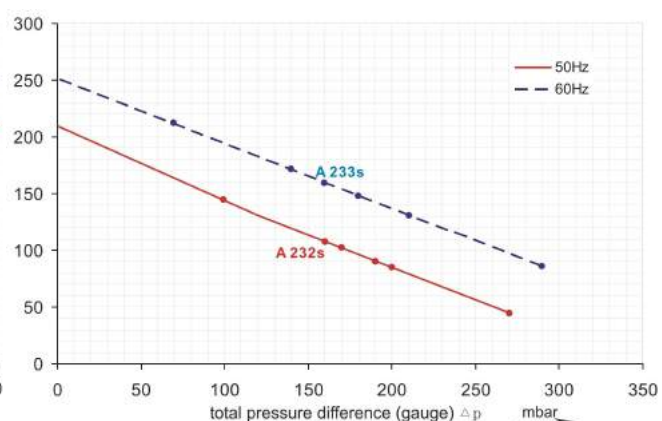


Performance curves

Vacuum operation



Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

Each ISS type can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and protection category IP 55 as well as approved for UL and CSA.

Selection and ordering data											
Type ISS-301											
Curve No.	Order No.	Fre- quency	Rated power	Input voltage		Input current		Permissible total differential pressure ²⁾		Sound pressure level ³⁾	Weight ca.
		Hz	kW	V		A		Vacuum mbar			kg
1~ 50/60 Hz IP55 with attached condenser for continuous operation											
A 232s	ISS-301	50	1.1	230		7.3		-160	160	64	21
A 233s	ISS-301	60	1.3	230		8.3		-150	160	70	21

All ISS achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

- 1) For standard UL for ELECTRIC MOTOR UL 1004-1.
- 2) Relief-valve are available for limiting differential pressure.
- 3) Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %. For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.

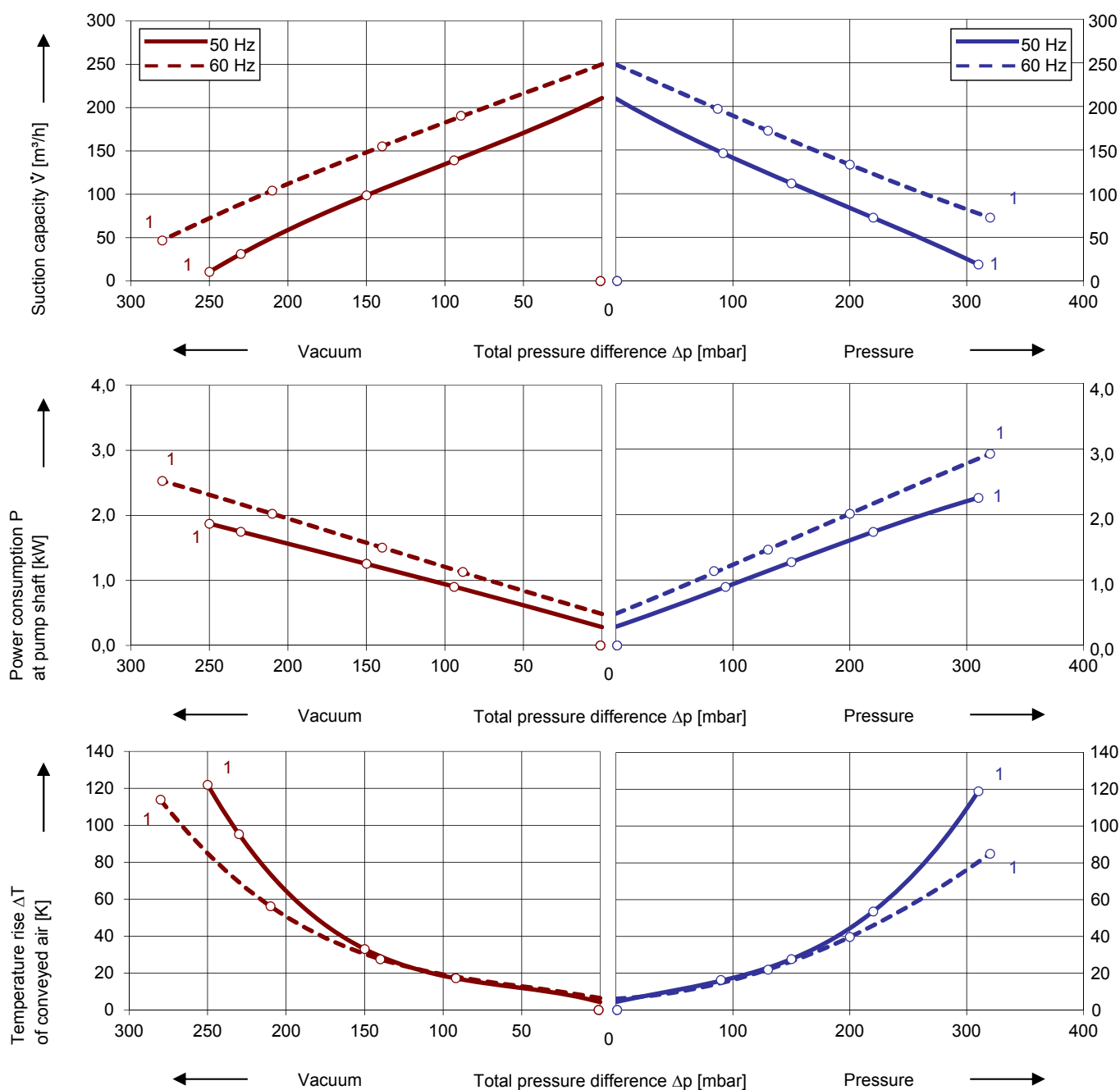




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-400										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
		Hz	V	A	kW	mbar				
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	220-240△/380-420Y	8.6△/5.0Y	3.0	-250	310	64	IE3	40	ISS-400
	60	265-290△/460-520Y	8.5△/4.9Y	3.5	-280	320	70	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

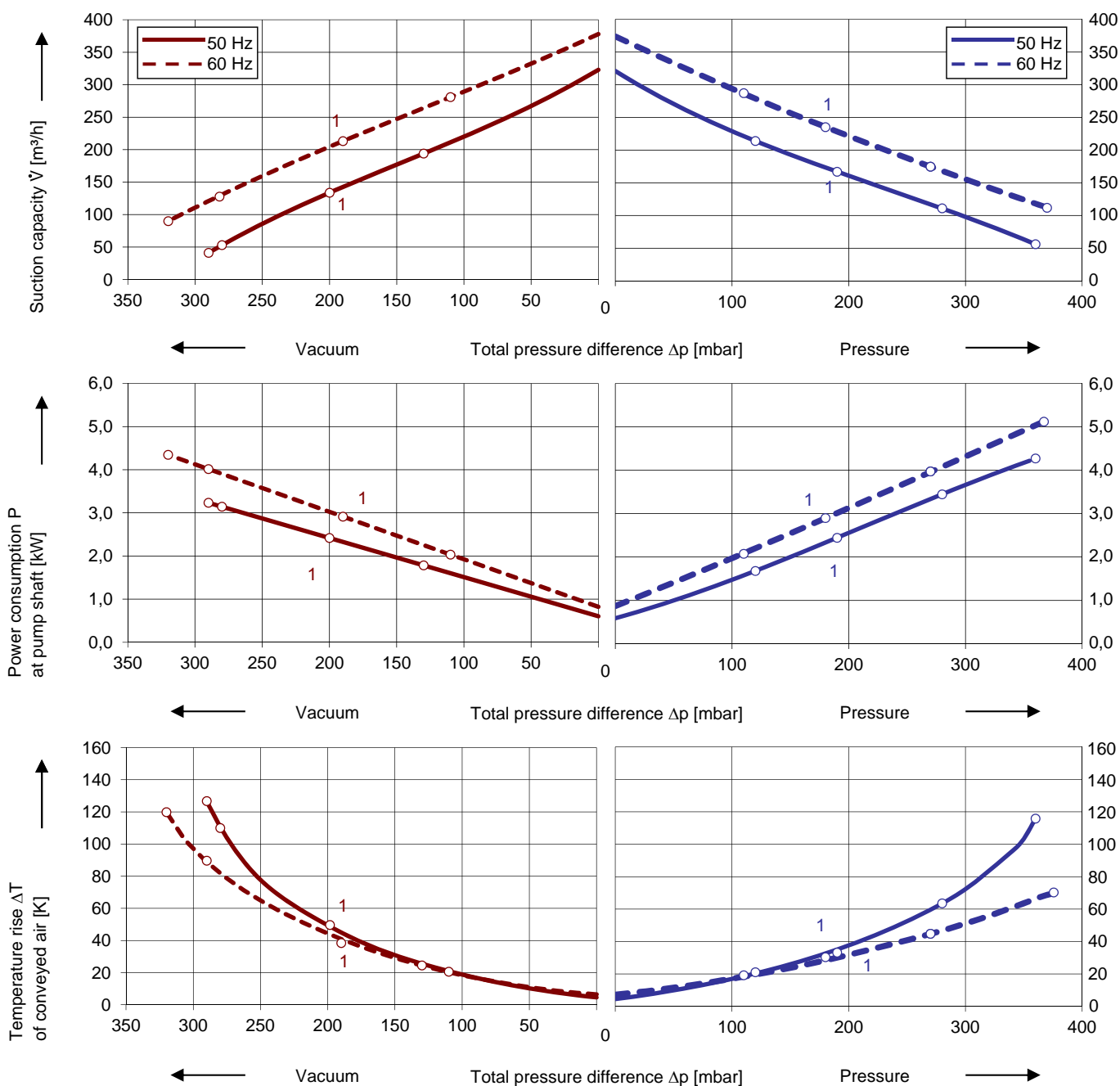




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-500										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	220-240△/380-420Y	8.6△/5.0Y	2.5	-200	190	69	IE3	49	ISS-500
	60	265-290△/460-520Y	8.5△/4.9Y	3.0	-190	180	72	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

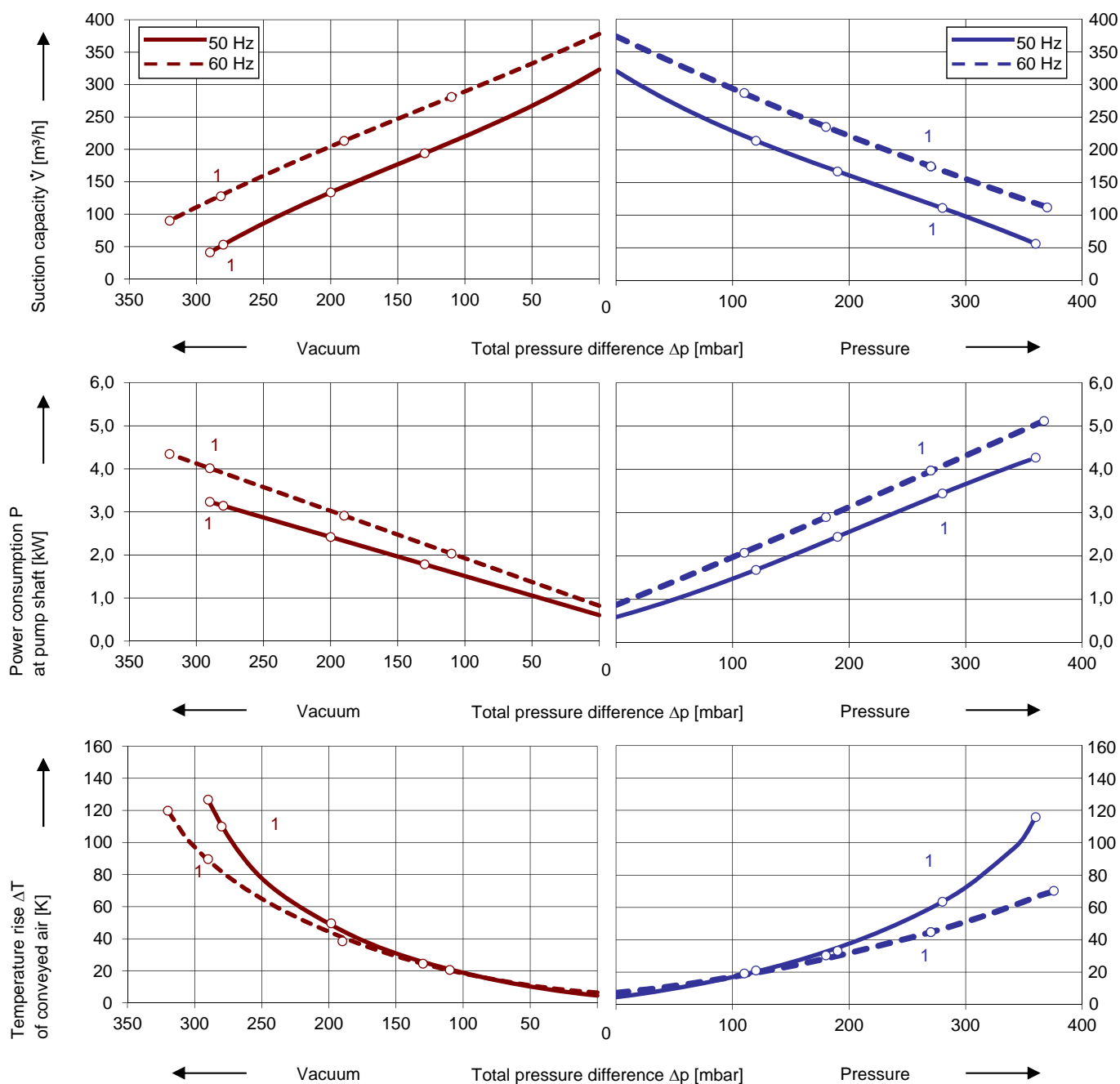




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-600										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	220-240△/380-420Y	11.6△/6.7Y	3.45	-280	280	69	IE3	54	ISS-600
	60	265-290△/460-520Y	11.2△/6.5Y	4.0	-280	270	72	IE3		

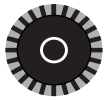
- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

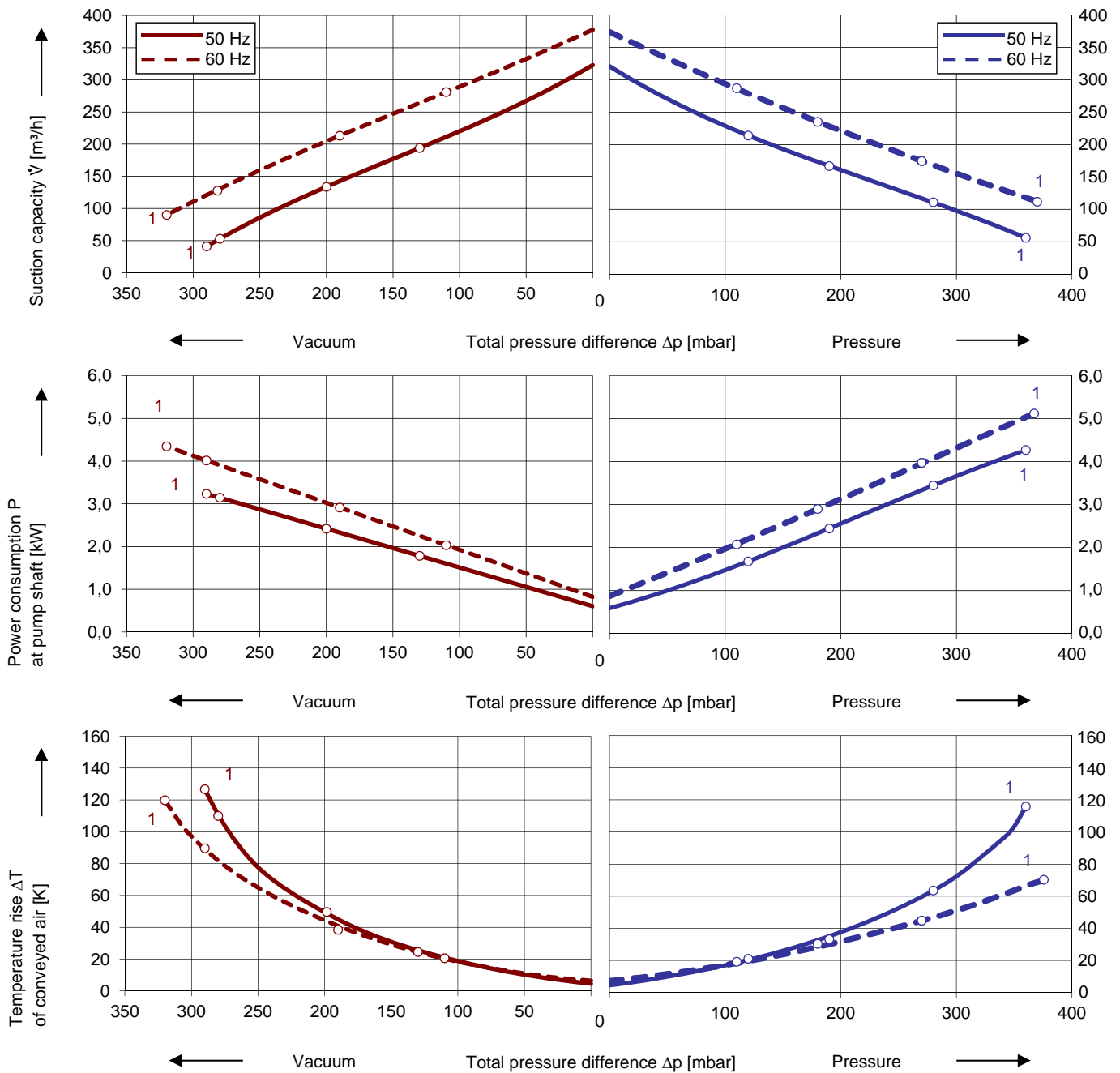




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-700										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)	kg		
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	8.6△/5.0Y	4.6	-290	350	69	IE3	63	ISS-700
	60	460-520△/790-870Y	8.4△/4.8Y	5.3	-330	360	72	IE3		

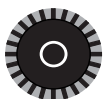
- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

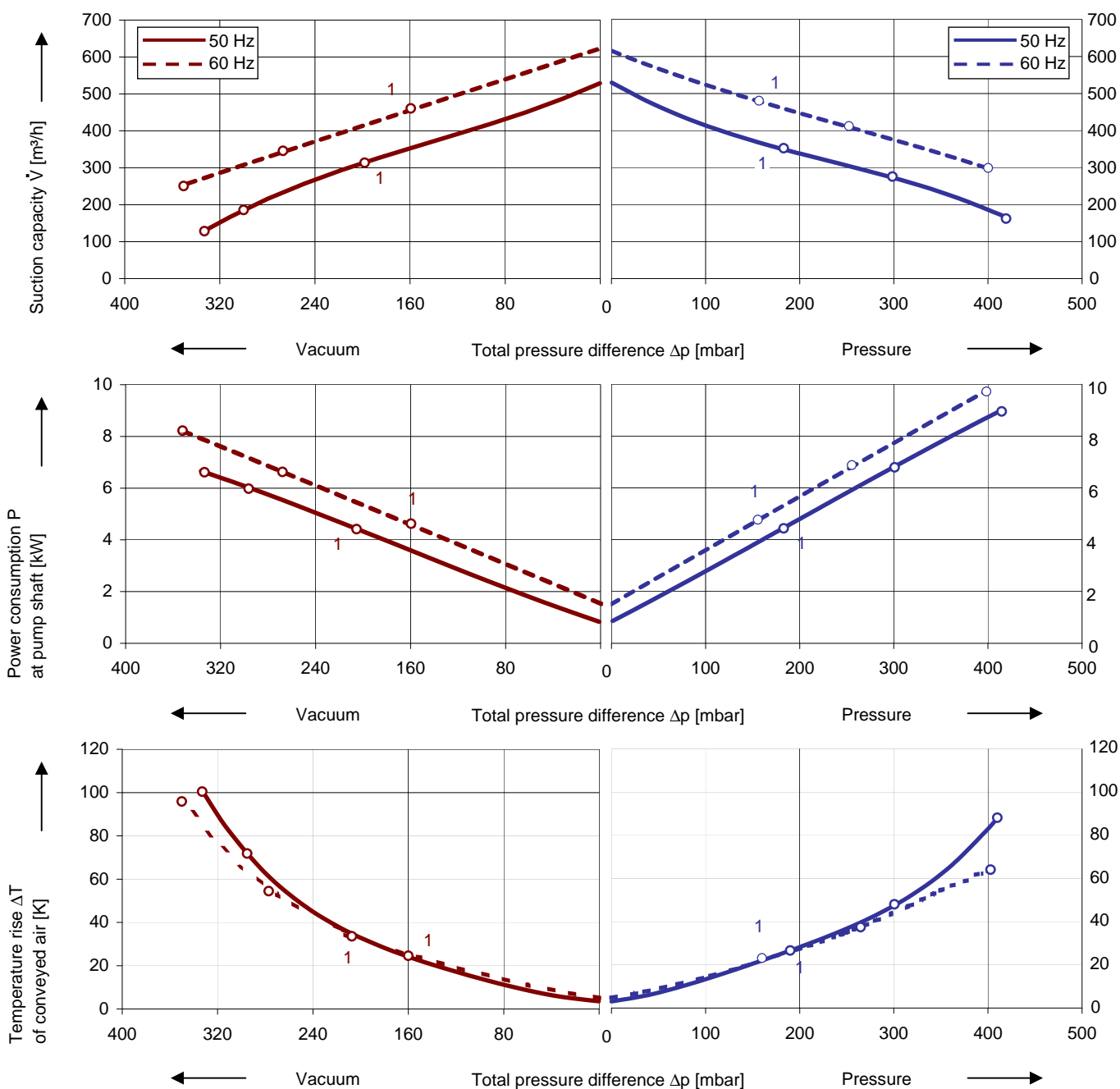




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data

Type ISS-750

No.	Fre- quency	Rated			Max. differential pressure		Sound pressure level	Efficiency class	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	8.6△/5.0Y	4.6	-200	180	70	IE3	62	ISS-750
	60	460-520△/790-870Y	8.4△/4.8Y	5.3	-160	150	74	IE3		

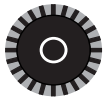
- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

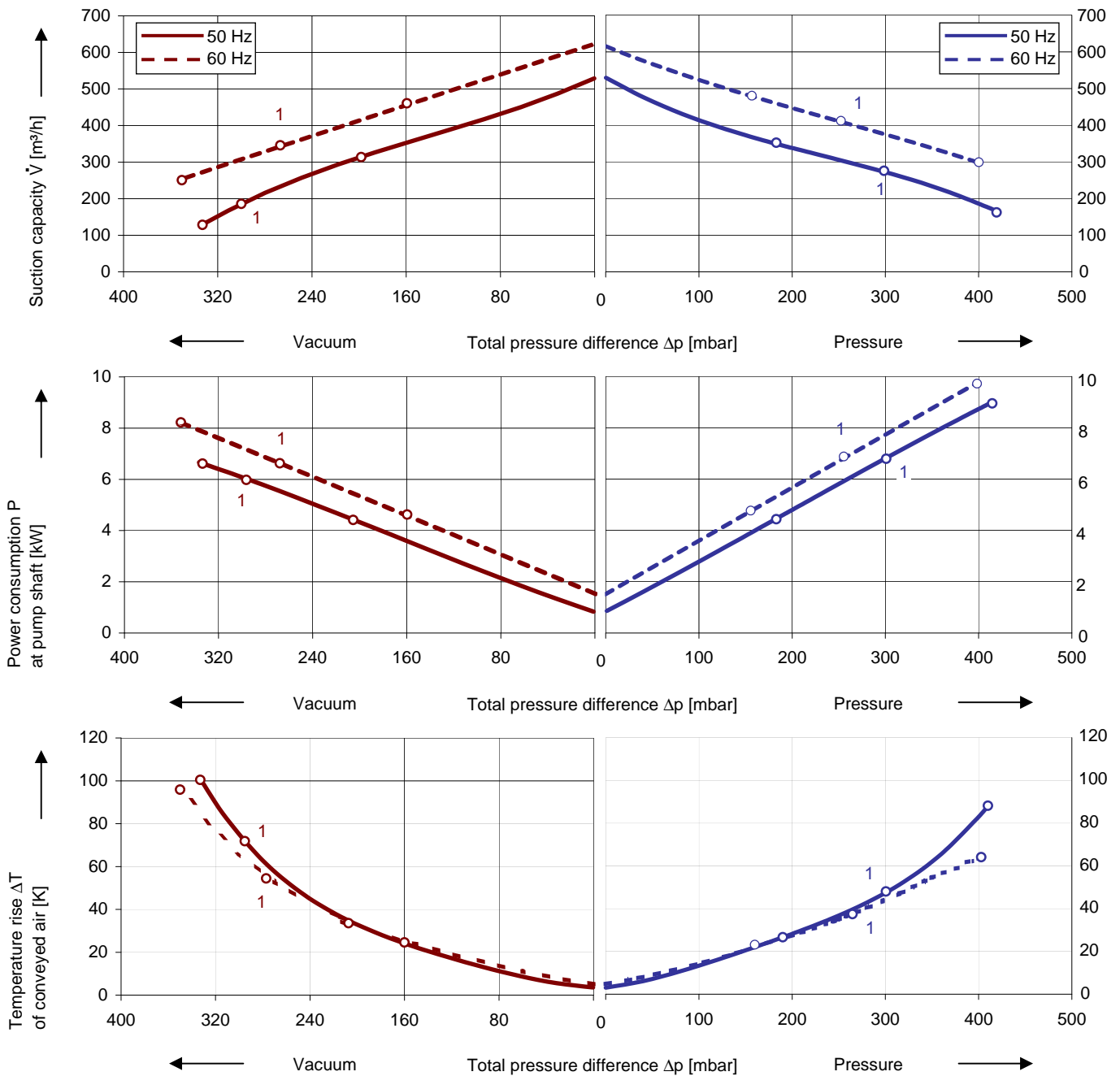




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data

Type ISS-800

No.	Fre- quency	Rated			Max. differential pressure		Sound pressure level	Efficiency class	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	11.8△/6.8Y	6.3	-300	300	70	IE3	73	ISS-800
	60	460-520△/790-870Y	11.6△/6.7Y	7.3	-270	250	74	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

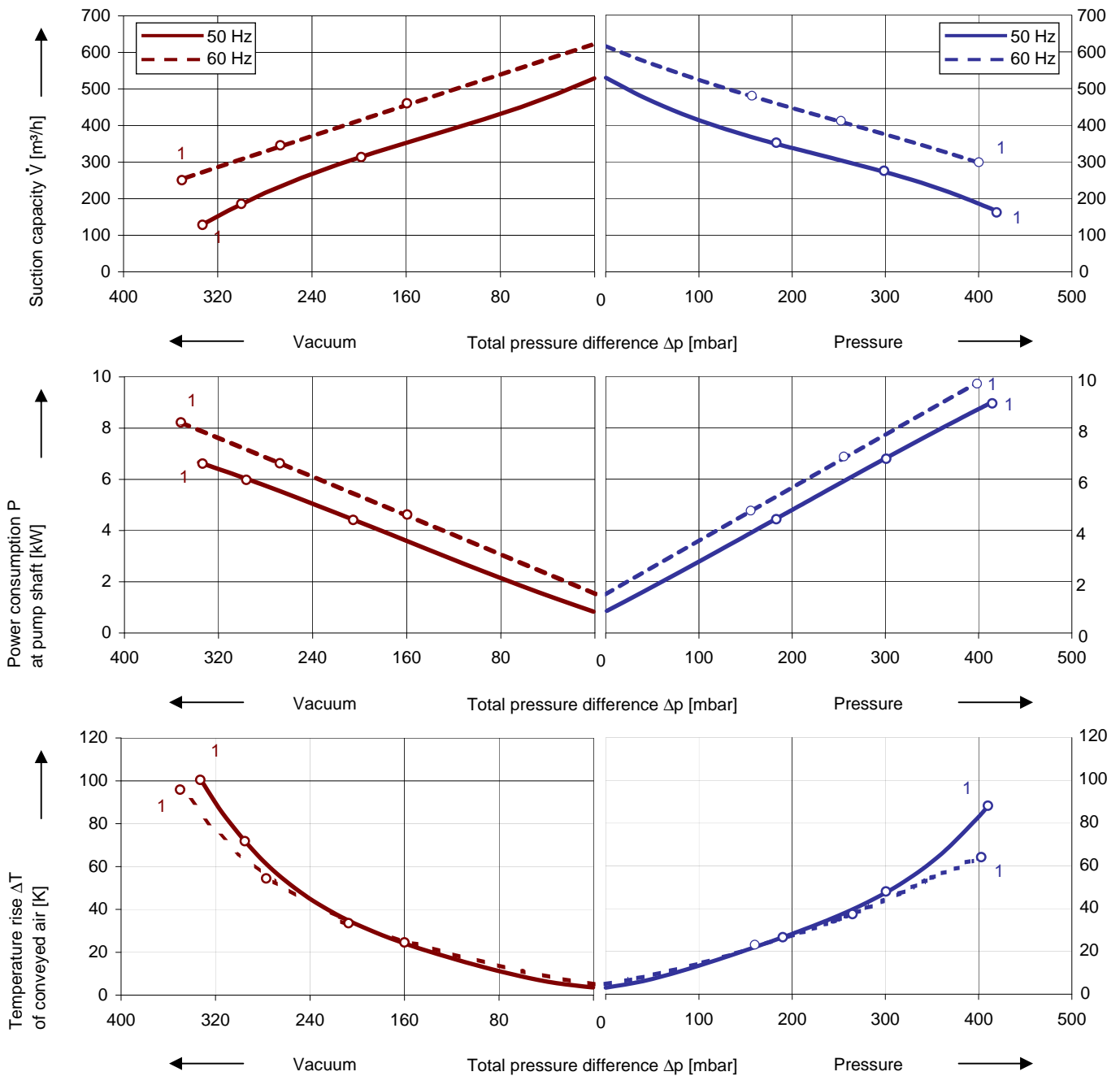




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data

Type ISS-900

No.	Fre- quency	Rated			Max. differential pressure		Sound pressure level	Efficiency class	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
3	50	380-420△/660-725Y	15.5△/8.9Y	8.6	-340	420	70	IE3	77	ISS-900
	60	460-520△/790-870Y	15.3△/8.8Y	9.9	-350	400	74	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

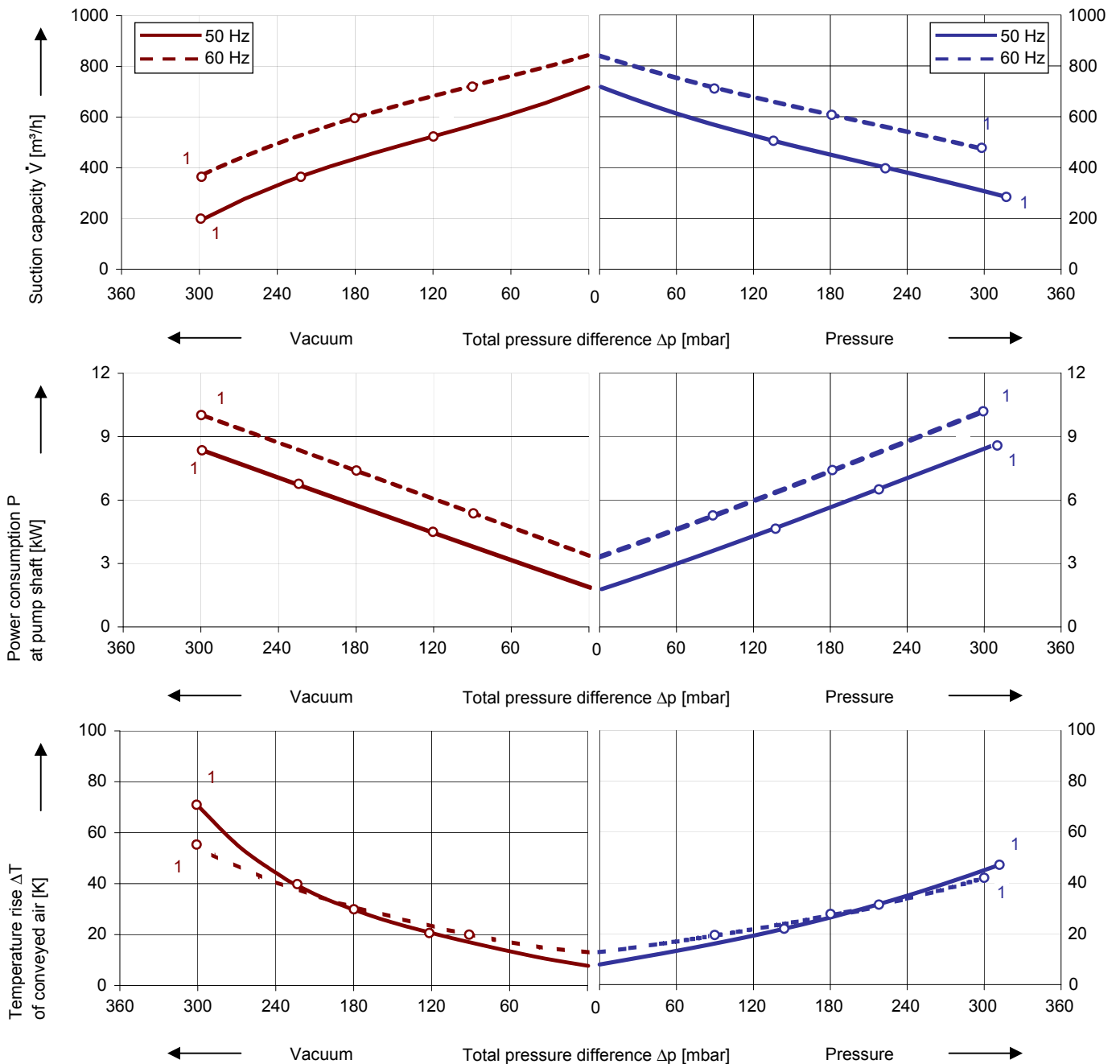




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data

Type ISS-1110

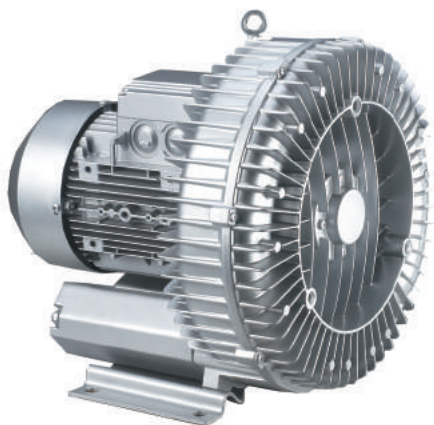
No.	Fre- quency	Rated			Max. differential pressure		Sound pressure	Efficiency class	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure	level			
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	15.5△/8.9Y	8.6	-300	320	70	IE3	79	ISS-1110
	60	460-520△/790-870Y	15.3△/8.8Y	9.9	-300	300	74	IE3		

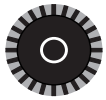
- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

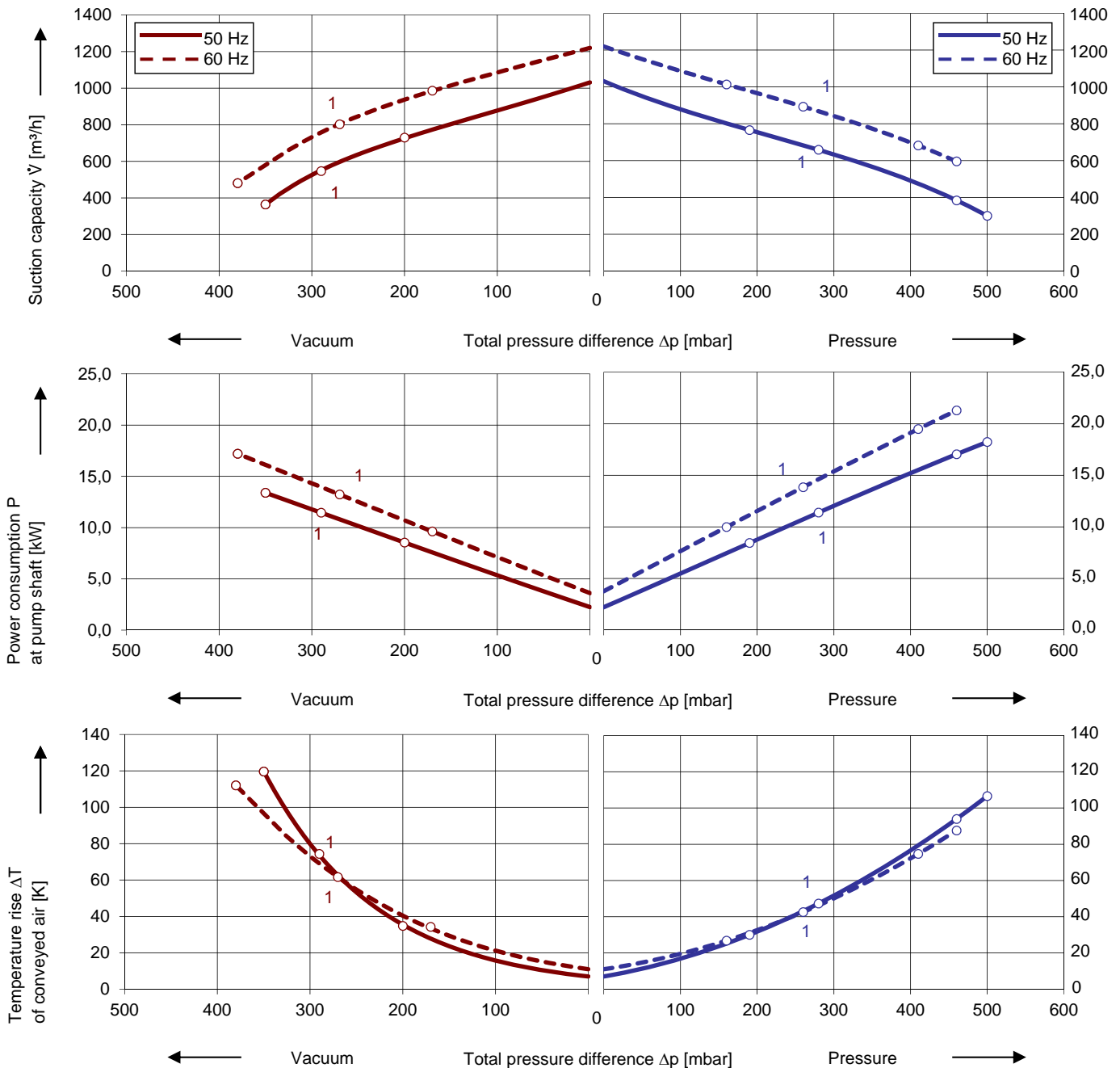




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-1200										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)	kg		
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	23.3△/13.4Y	12.6	-290	280	74	IE3	140	ISS-1200
	60	460-520△/790-870Y	23.0△/13.2Y	14.5	-270	260	79	IE3		

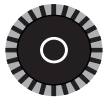
- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

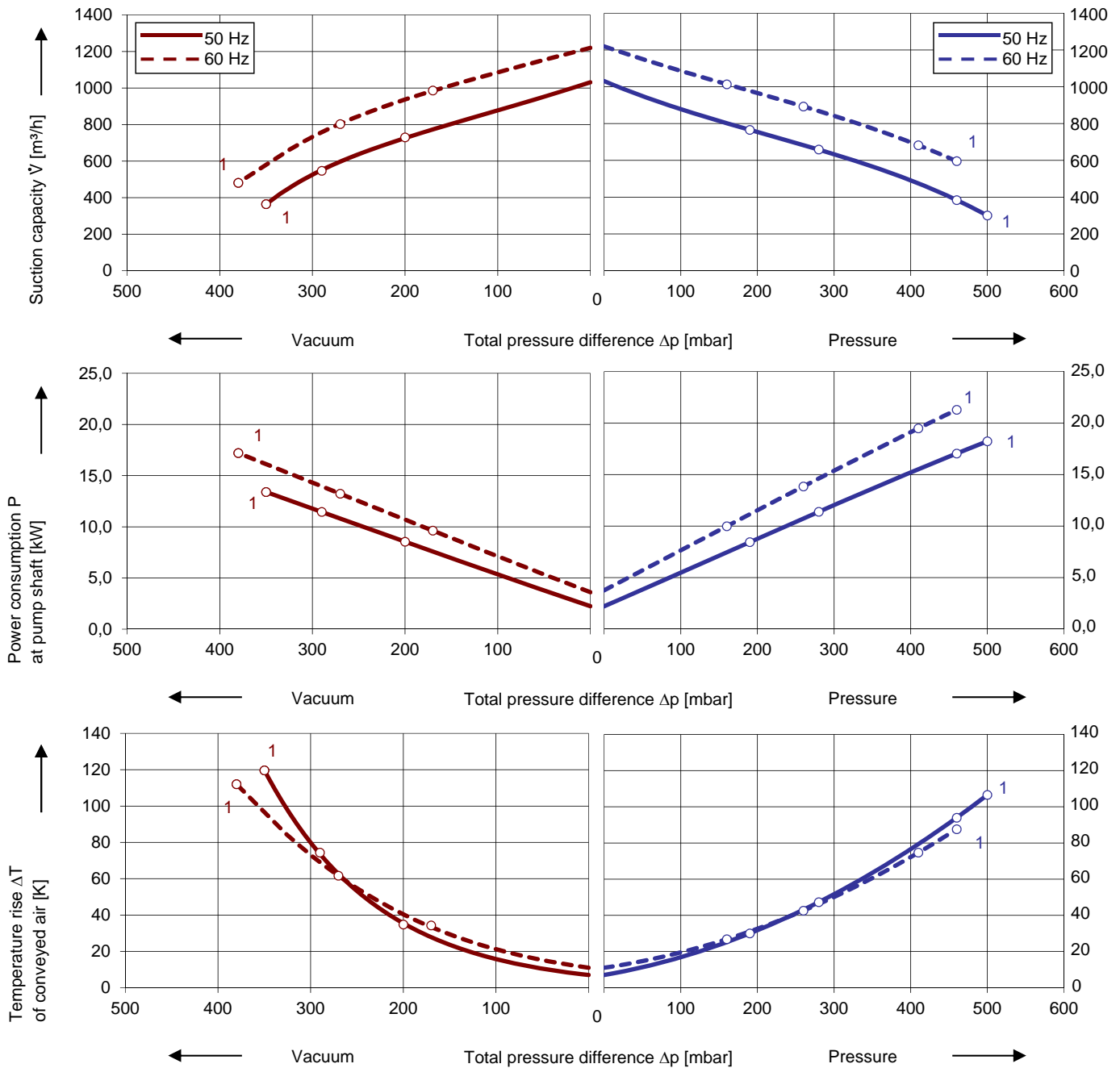




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-1300										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)	kg		
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	38.3△/22.1Y	21.3	-350	500	74	IE3	162	ISS-1300
	60	460-520△/790-870Y	38.0△/22.0Y	24.5	-380	460	79	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

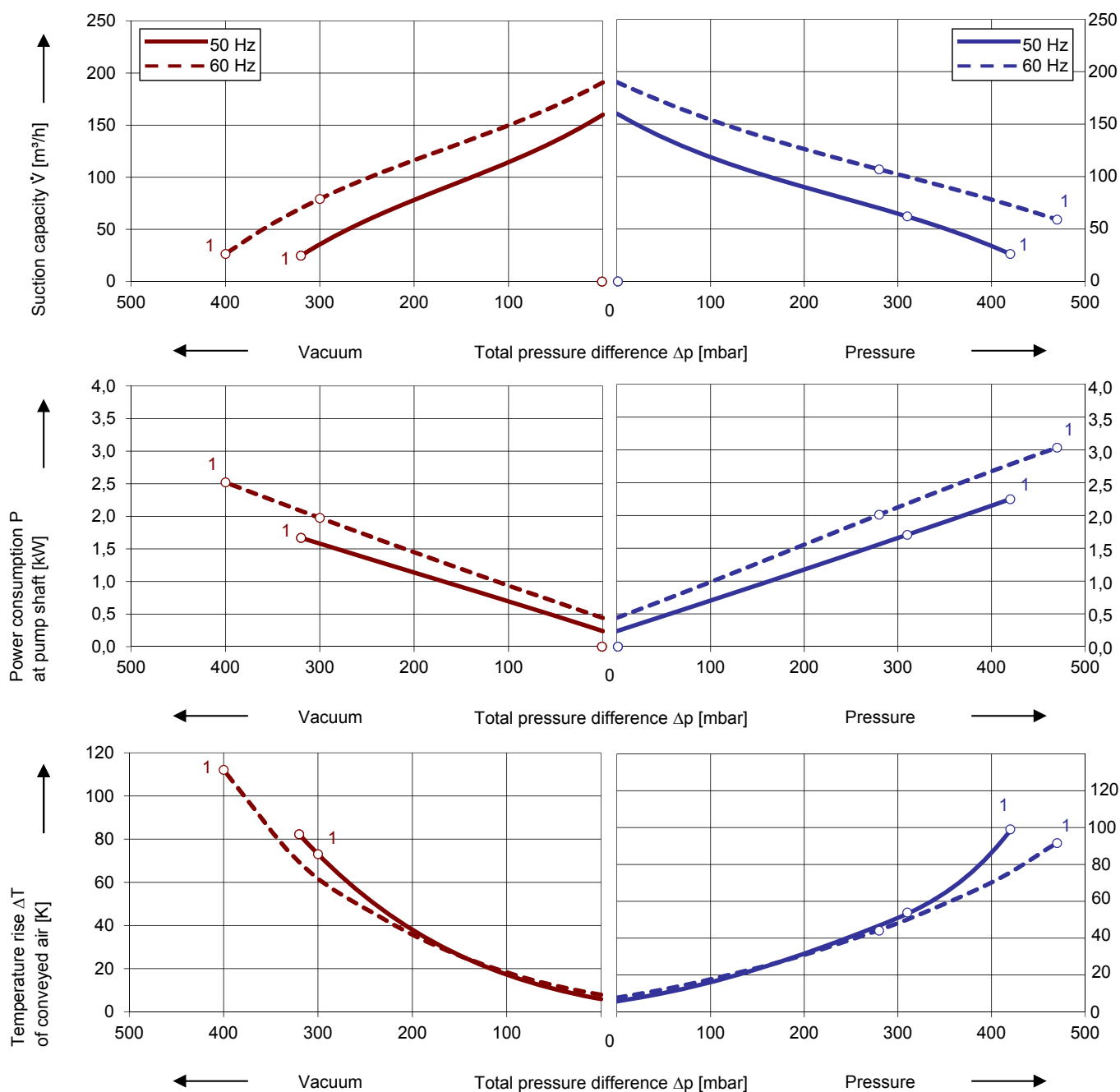




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

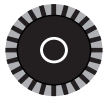
Selection and ordering data										
Type ISS-402										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
			Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	220-240△/380-420Y	8.6△/5.0Y	2.5	-320	420	66	IE3	35	ISS-402
	60	265-290△/460-520Y	8.5△/4.9Y	3.0	-400	470	69	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ±3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.
The frequency tolerance is +/- 2 % maximum.

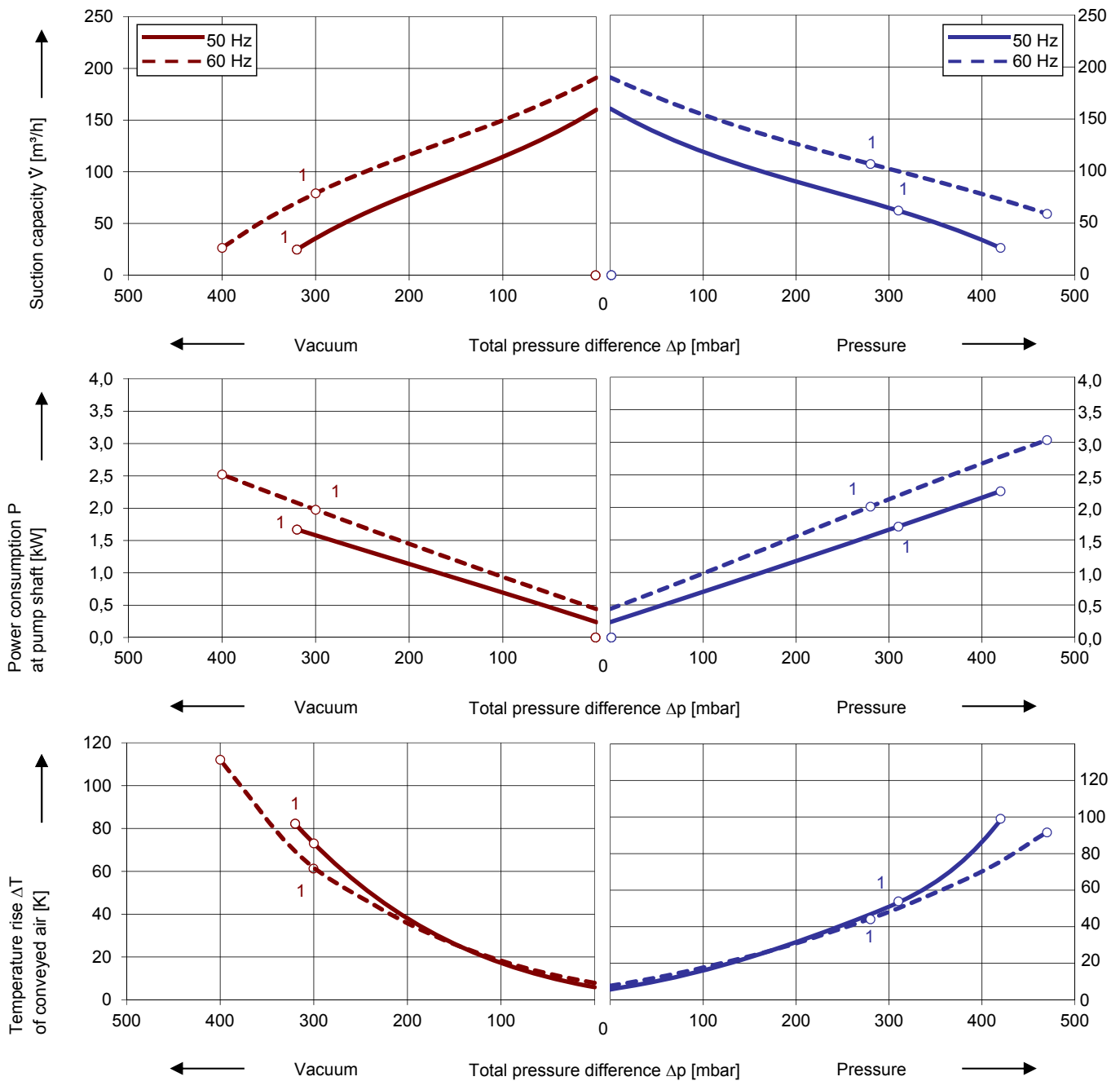




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-420S										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight	Order No.
			Current	Power	Vacuum	Pressure			approx.	
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	220-240△/380-420Y	6.0△/3.45Y	1.75	-320	310	66	IE3	32	ISS-420S
	60	265-290△/460-520Y	5.9△/3.4Y	2.0	-300	280	69	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ±3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

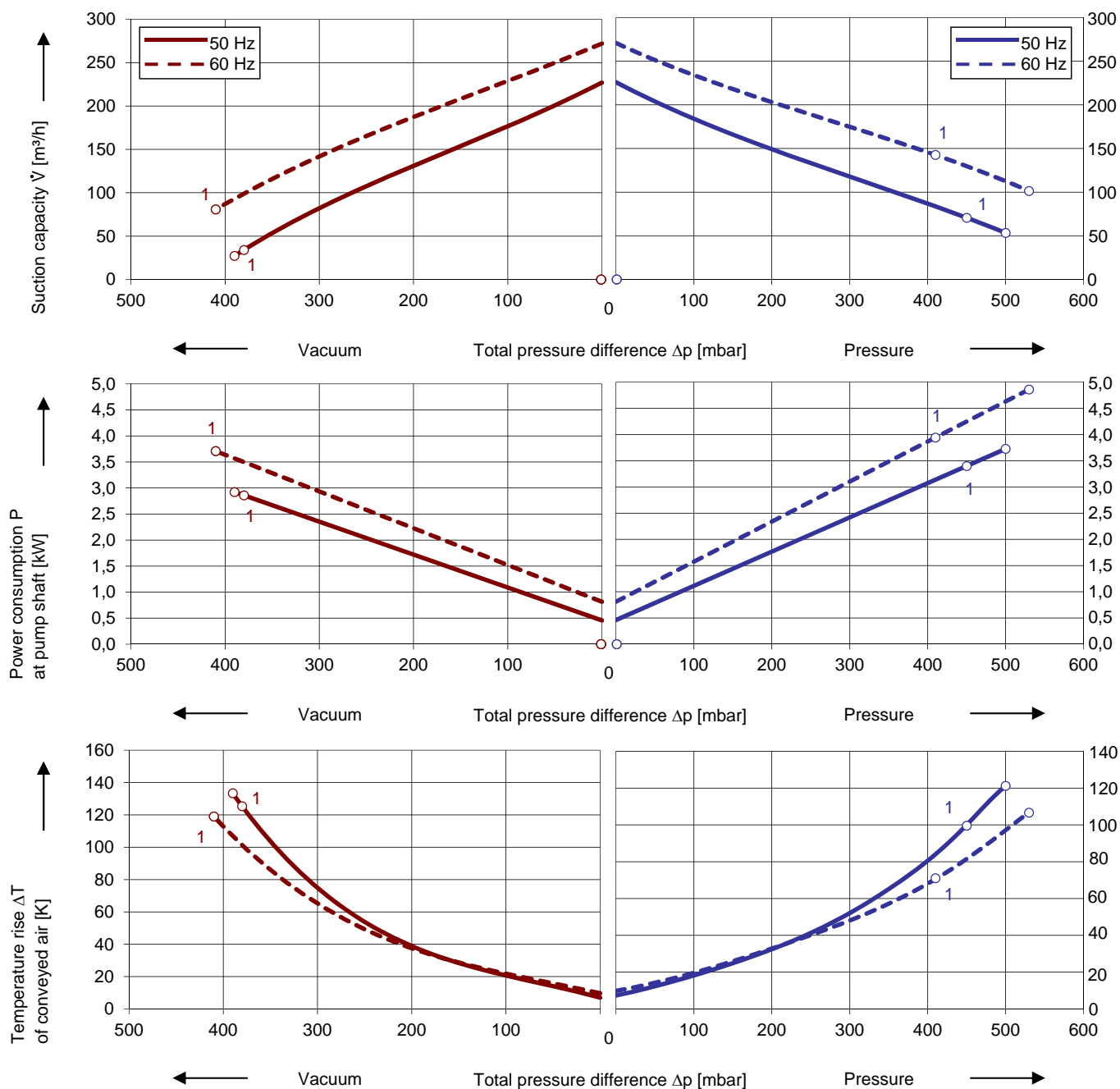




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10 \%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-602										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight	Order No.
		Voltage	Current	Power	Vacuum	Pressure			approx.	
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	220-240△/380-420Y	11.6△/6.7Y	3.45	-380	450	72	IE3	53	ISS-602
	60	265-290△/460-520Y	11.2△/6.5Y	4.0	-410	410	74	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ±3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.
The frequency tolerance is +/- 2 % maximum.

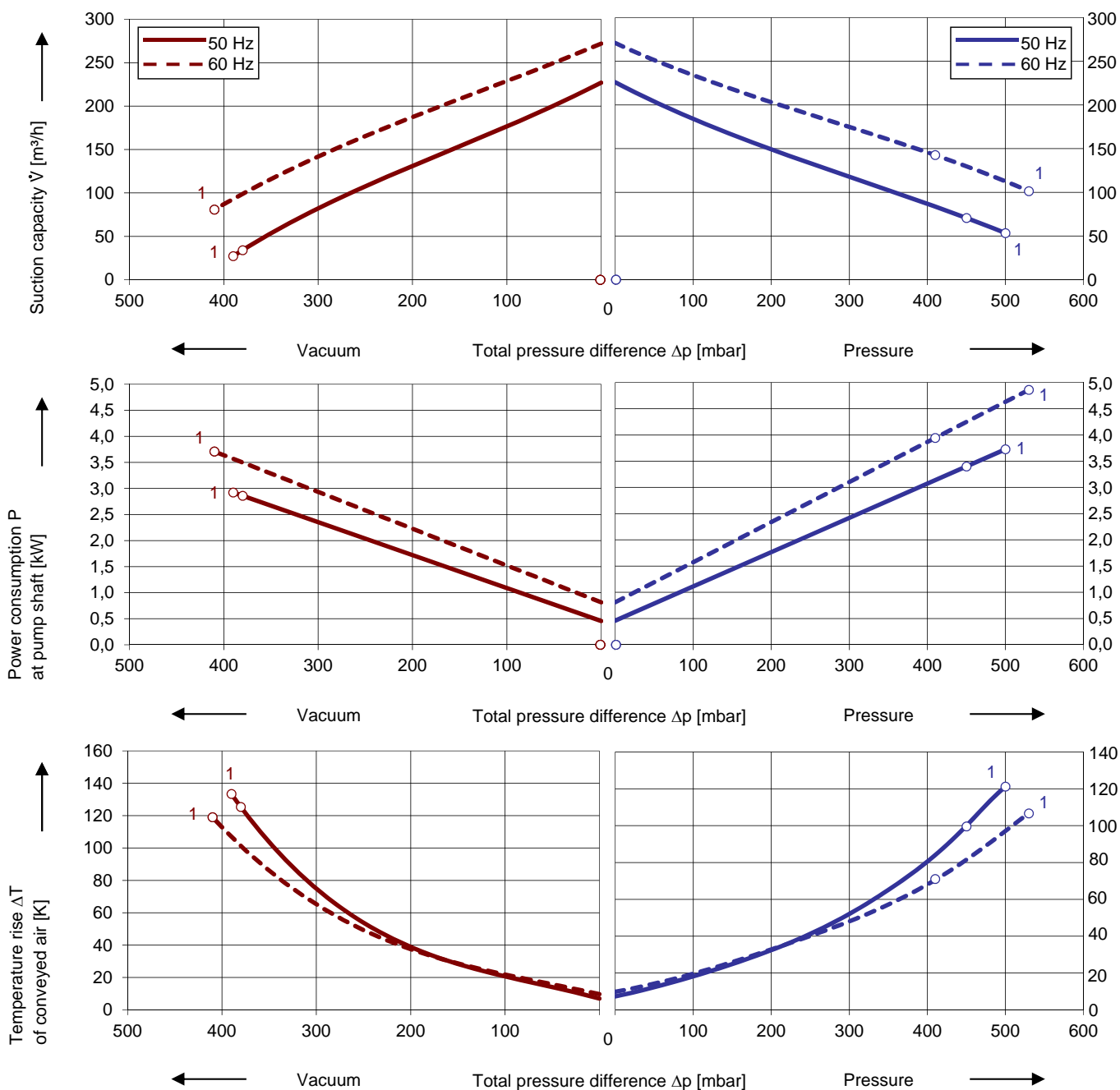




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data

Type ISS-702

No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	8.6△/5.0Y	4.6	-390	500	72	IE3	63	ISS-702
	60	460-520△/790-870Y	8.4△/4.8Y	5.3	-410	530	74	IE3		

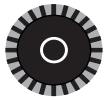
- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

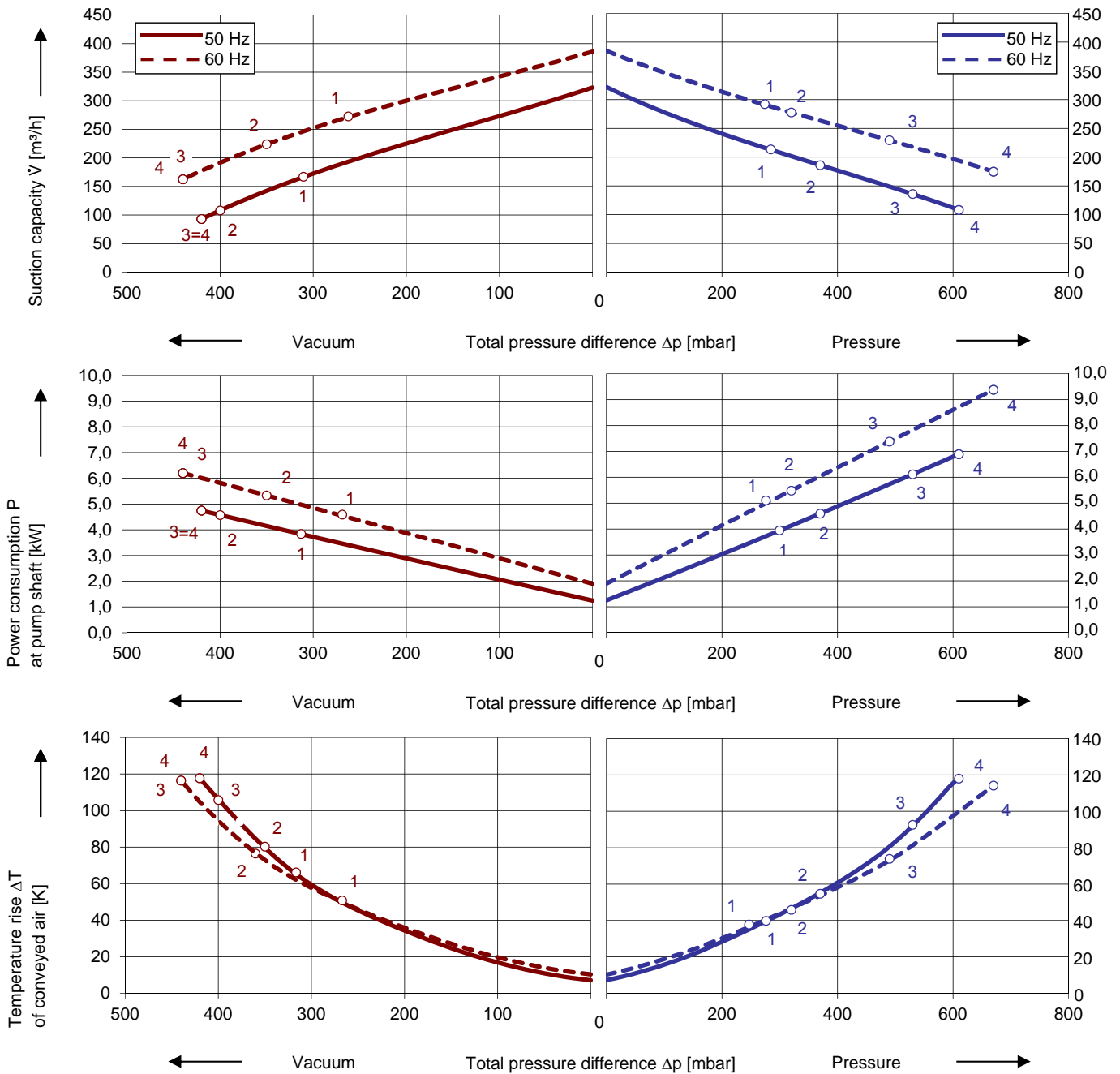




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data

Type ISS-802

No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	8.6△/5.0Y	4.6	-400	370	73	IE3	67	ISS-802
	60	460-520△/790-870Y	8.4△/4.8Y	5.3	-350	320	75	IE3		

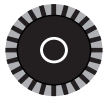
- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

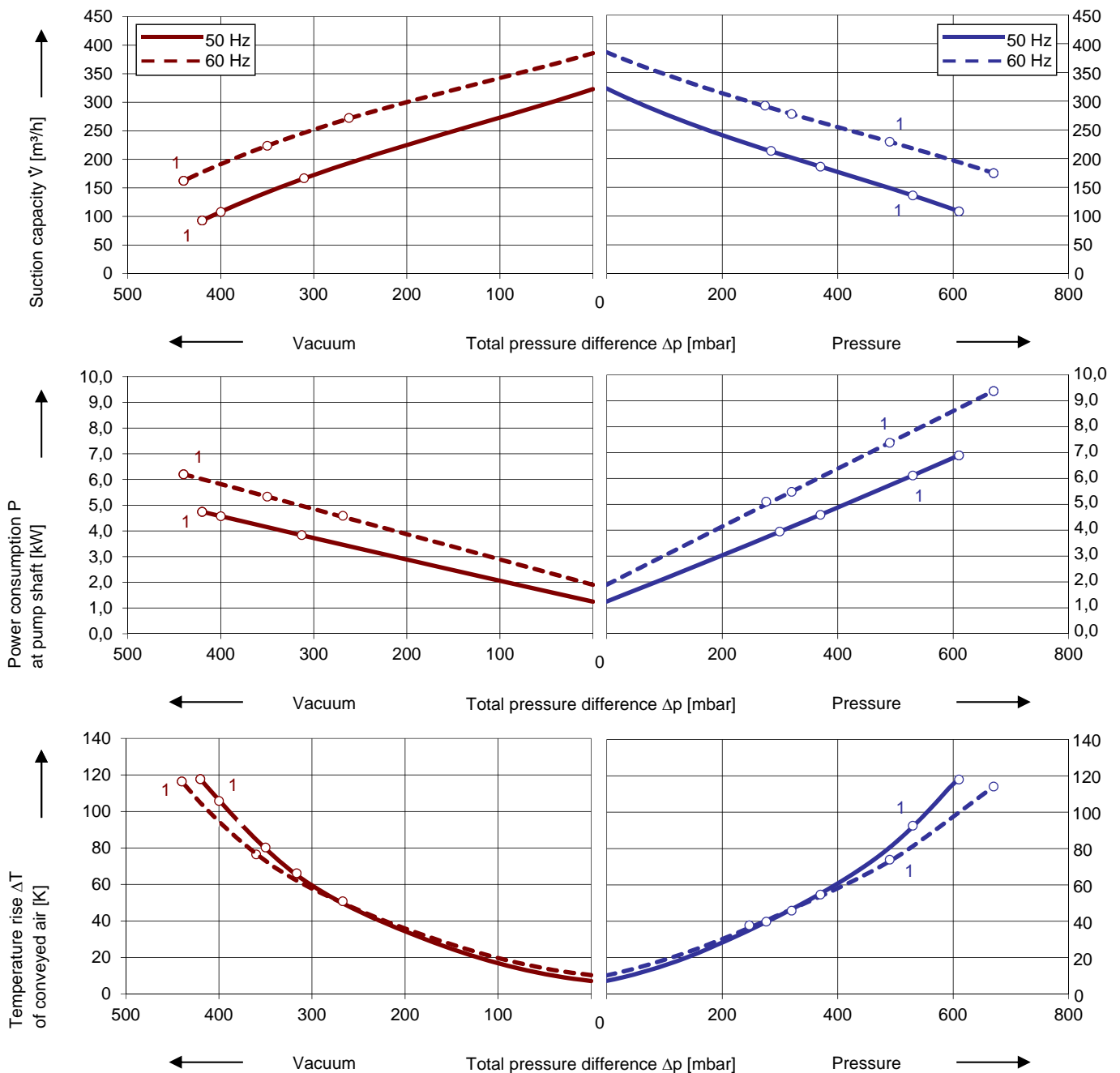




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10 \%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-902										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	11.8△/6.8Y	6,3	-420	530	73	IE3	82	ISS-902
	60	460-520△/790-870Y	11.6△/6.7Y	7,3	-440	490	75	IE3		

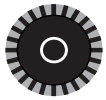
- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

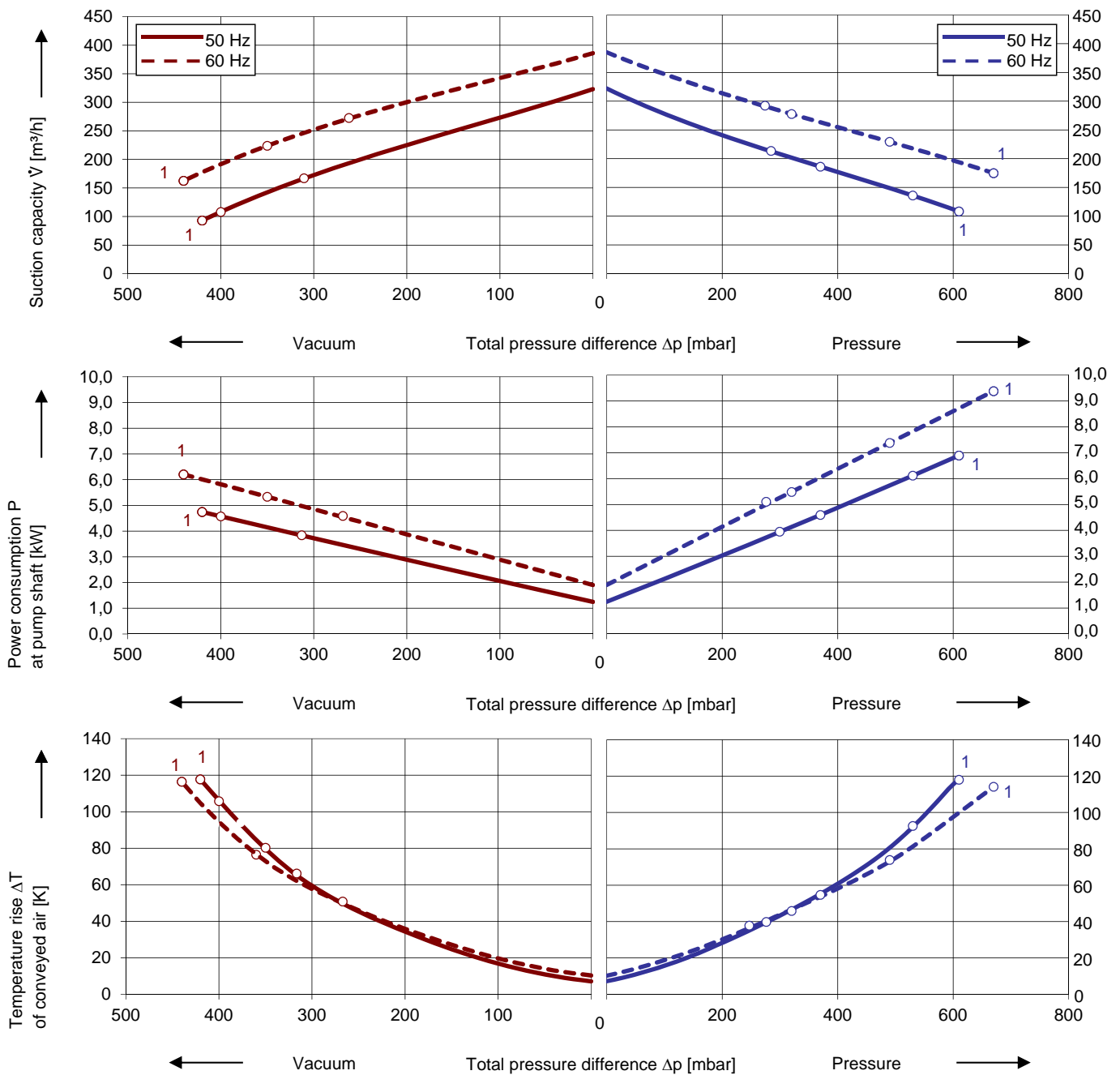




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data

Type ISS-1002

No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	15.5△/8.9Y	8.6	-420	610	73	IE3	88	ISS-1002
	60	460-520△/790-870Y	15.3△/8.8Y	9.9	-440	670	75	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

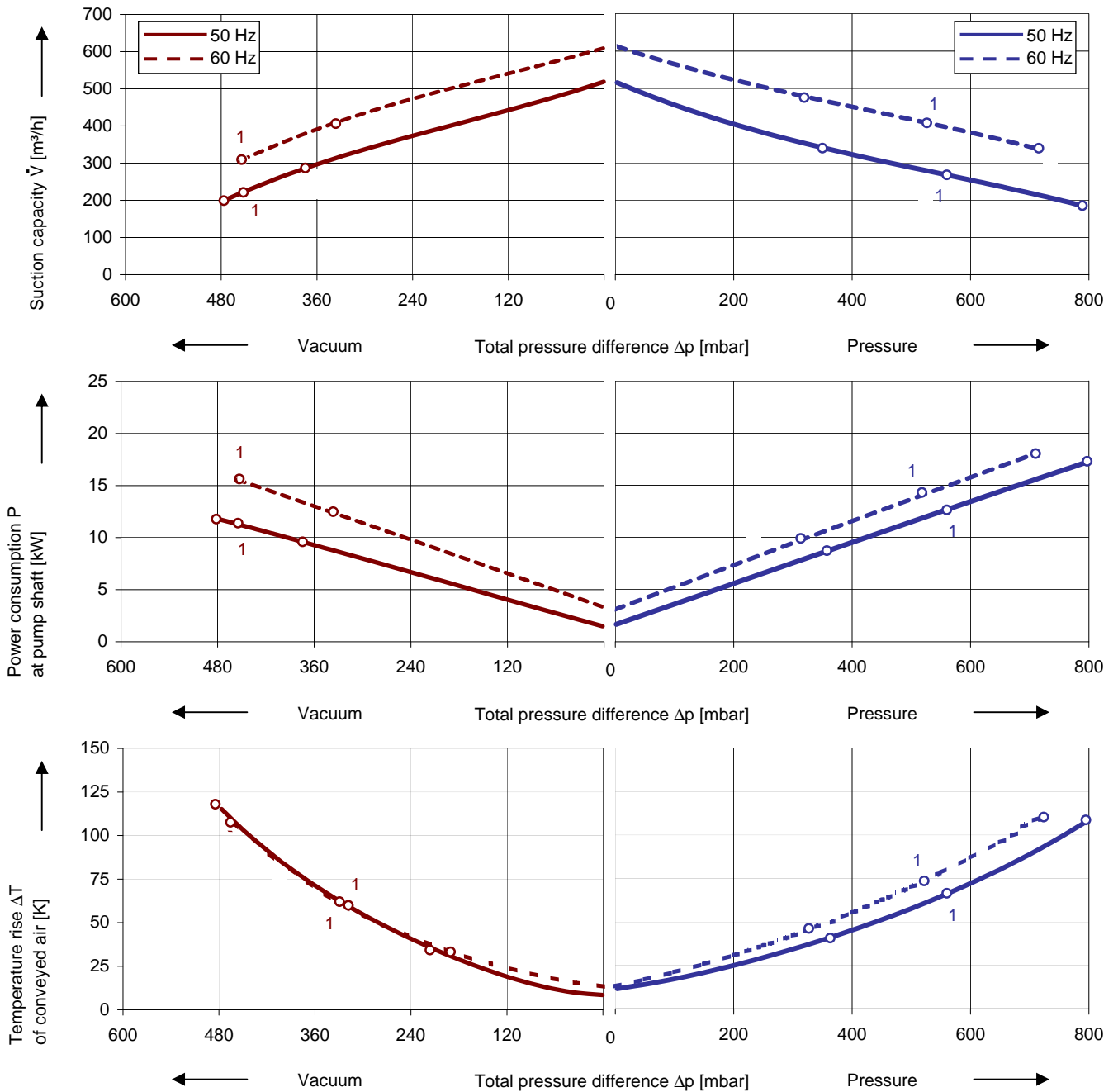




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-1102										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)	kg		
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	23.3△/13.4Y	12.6	-460	570	74	IE3	135	ISS-1102
	60	460-520△/790-870Y	23.0△/13.2Y	14.5	-460	540	78	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

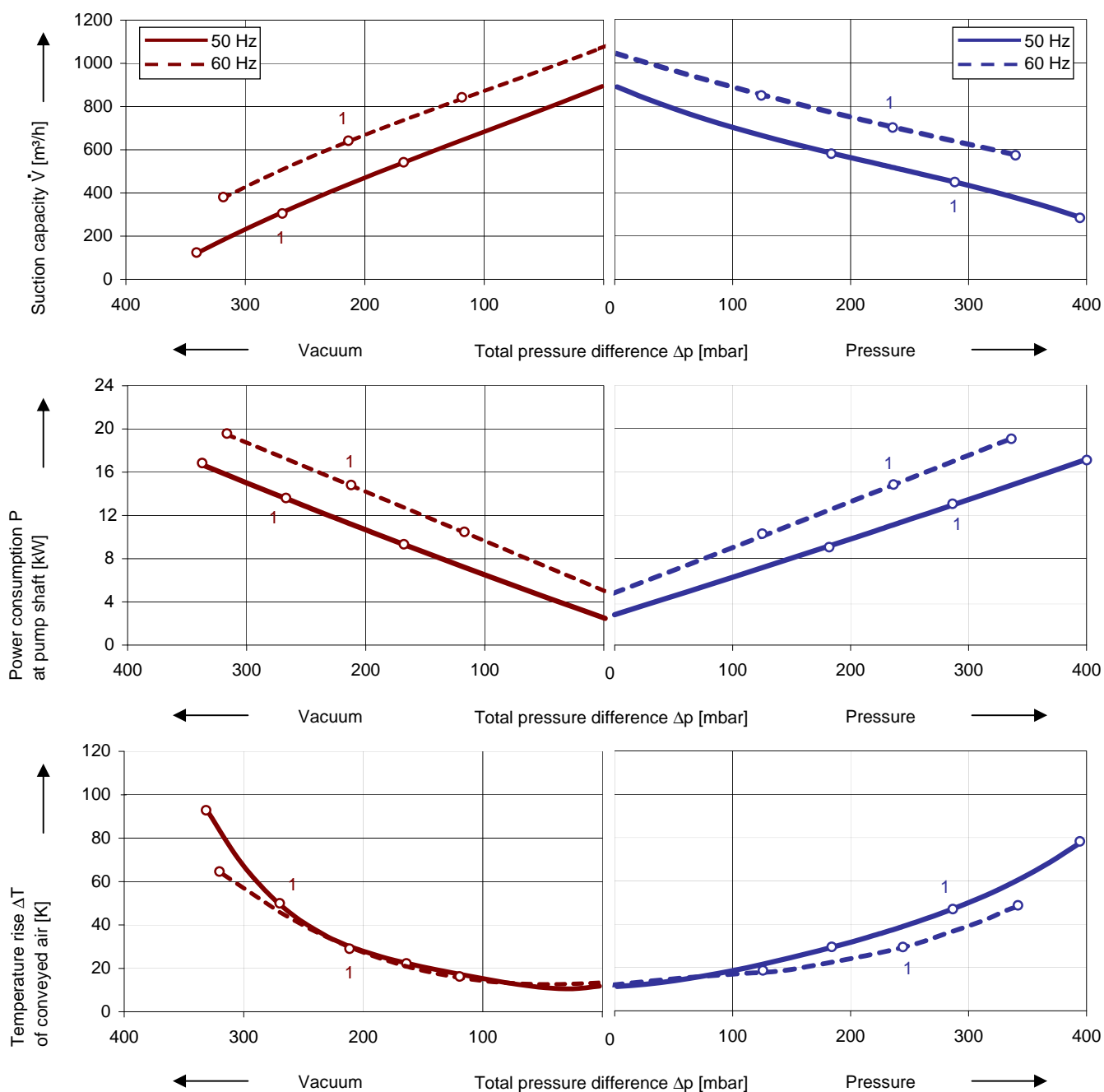




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data

Type ISS-1112

No.	Fre- quency	Rated			Max. differential pressure		Sound pressure level	Efficiency class	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	23.3△/13.4Y	12.6	-260	290	74	IE3	137	ISS-1112
	60	460-520△/790-870Y	23.0△/13.2Y	14.5	-220	240	78	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

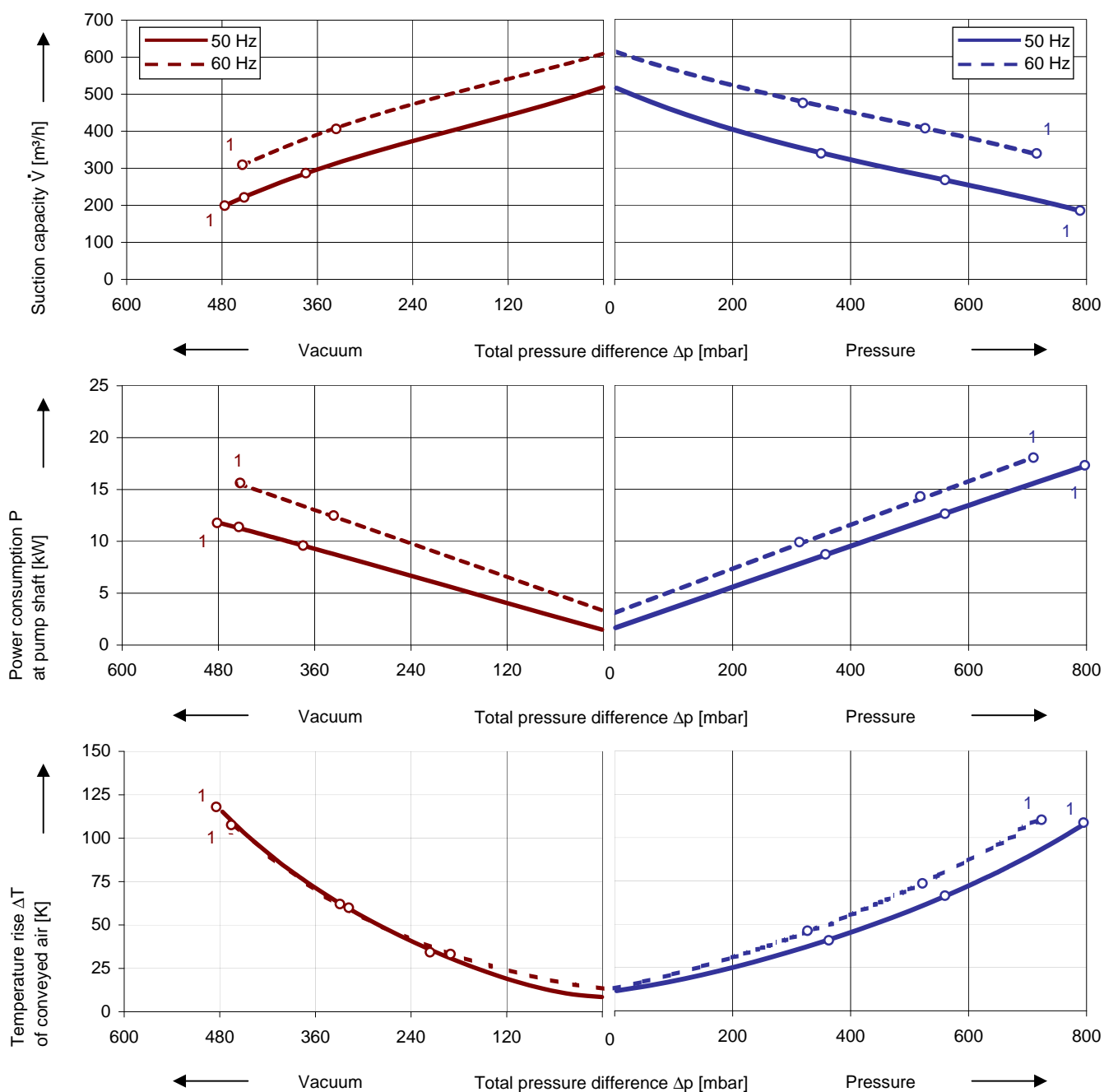




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-1202										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)	kg		
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	31.7△/18.3Y	17.3	-480	800	74	IE3	146	ISS-1202
	60	460-520△/790-870Y	31.4△/18.1Y	19.9	-460	720	78	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

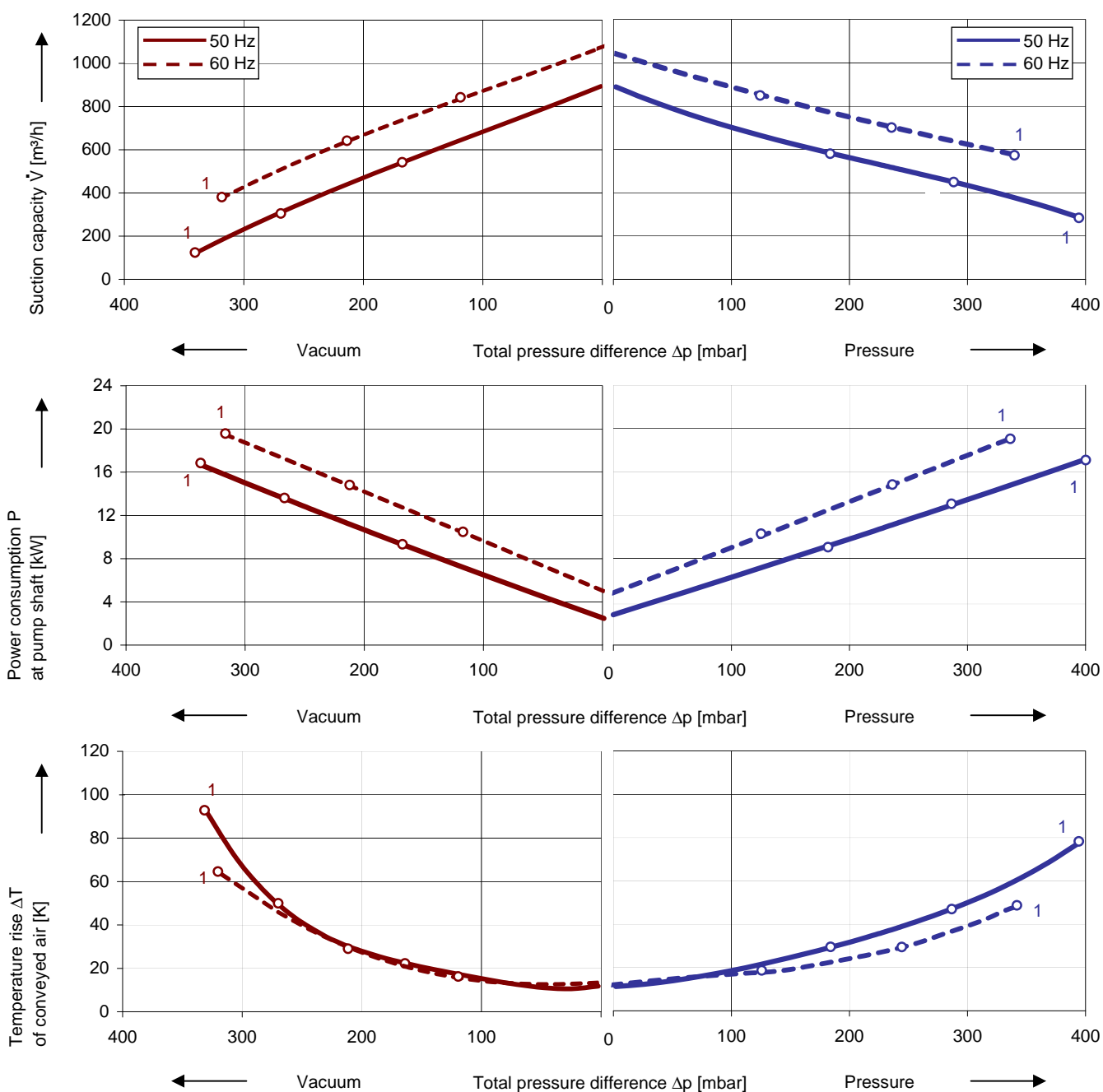




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data

Type ISS-1212

No.	Fre- quency	Rated			Max. differential pressure		Sound pressure level	Efficiency class	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	31.7△/18.3Y	17.3	-340	400	74	IE3	148	ISS-1212
	60	460-520△/790-870Y	31.4△/18.1Y	19.9	-320	330	78	IE3		

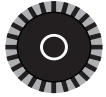
- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

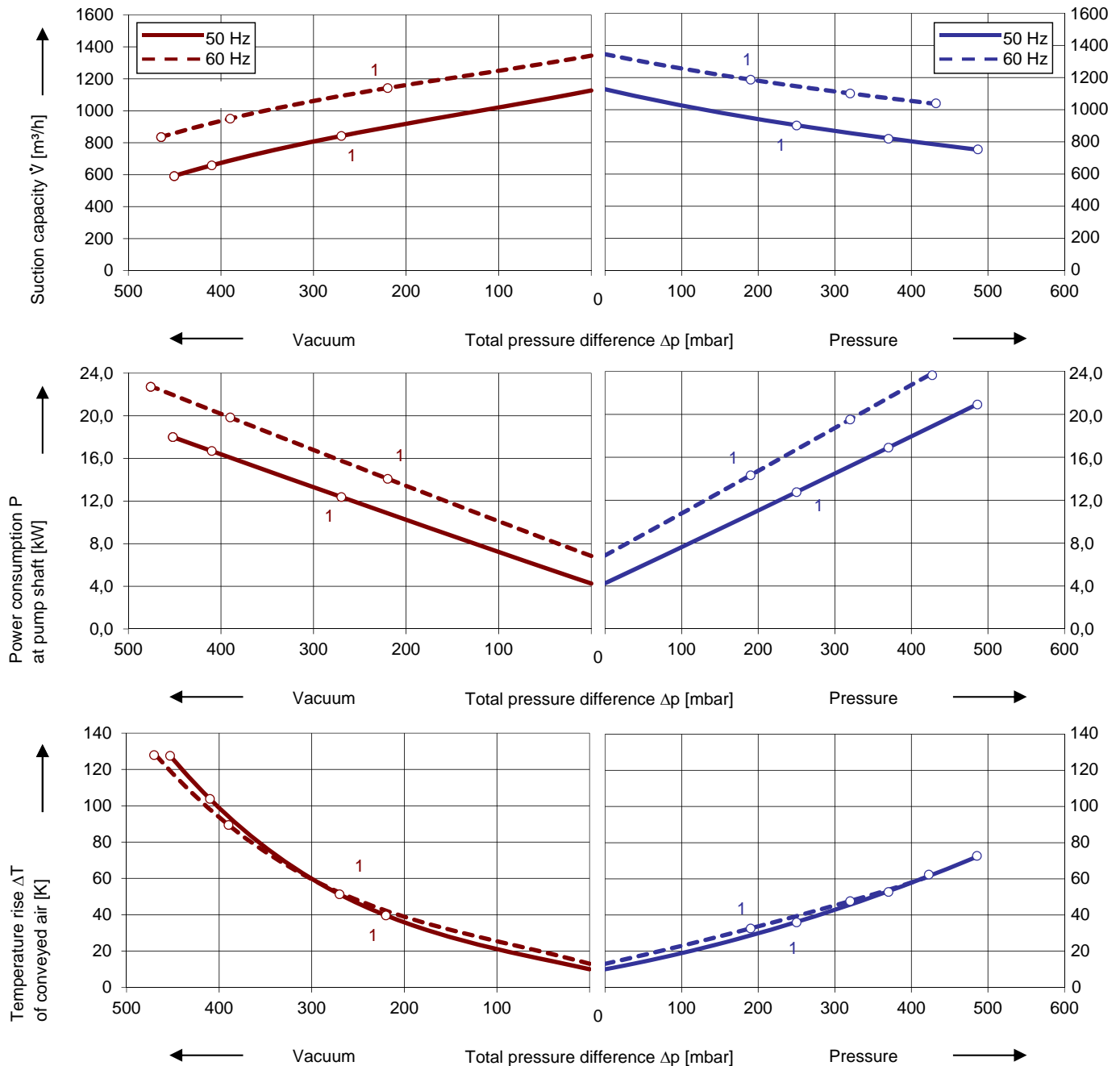




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-1302										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)	kg		
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	23.3△/13.4Y	12.7	-270	250	74	IE3	195	ISS-1302
	60	460-520△/790-870Y	23.0△/13.2Y	14.5	-220	190	84	IE3		

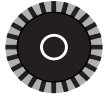
- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.

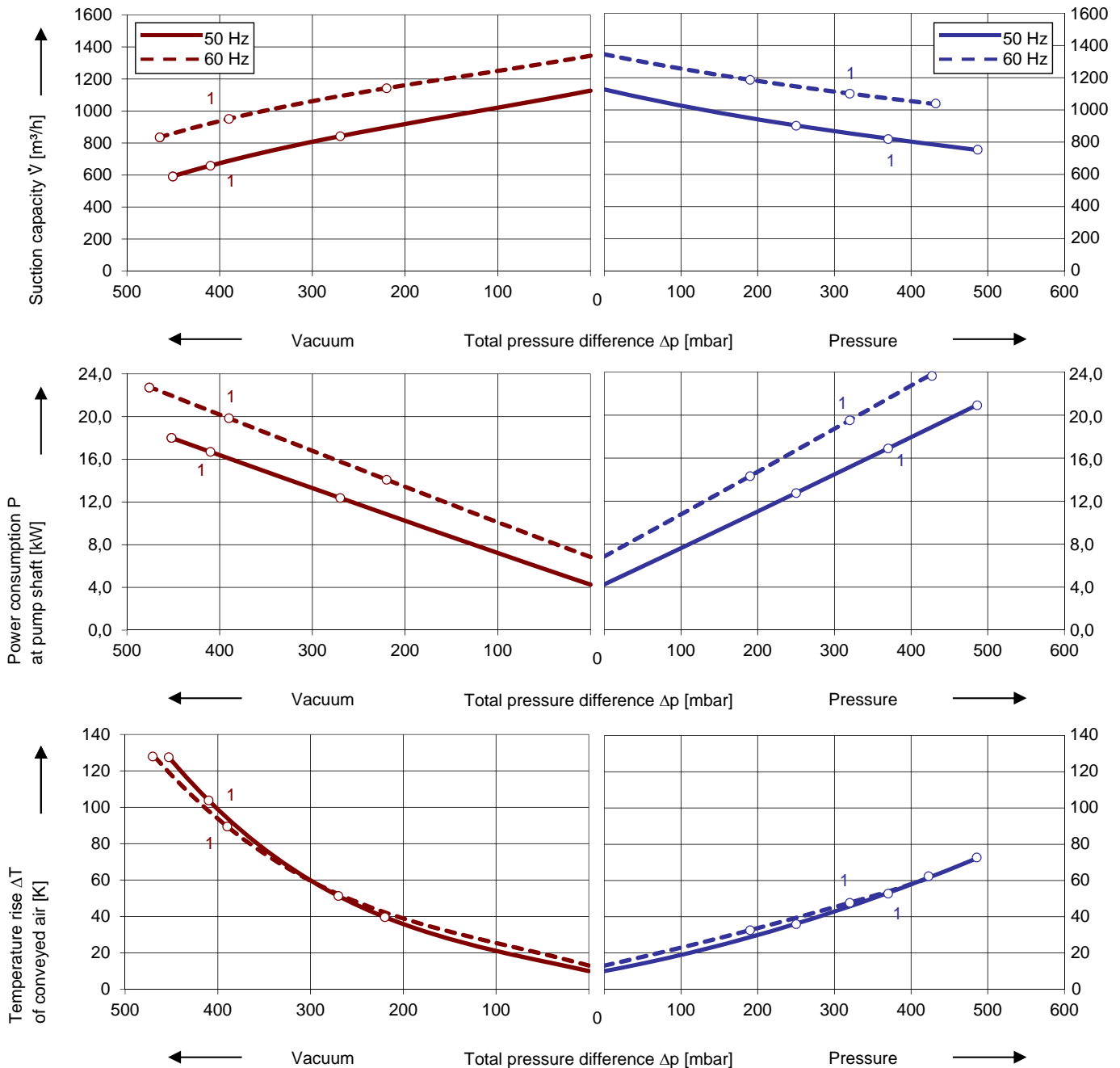




Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-1402										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)			
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	31.7△/18.3Y	17.3	-410	370	74	IE3	208	ISS-1402
	60	460-520△/790-870Y	31.4△/18.1Y	19.9	-390	320	84	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

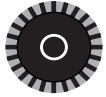




Data sheet ISS-1502

Side channel blower with IE3-motors

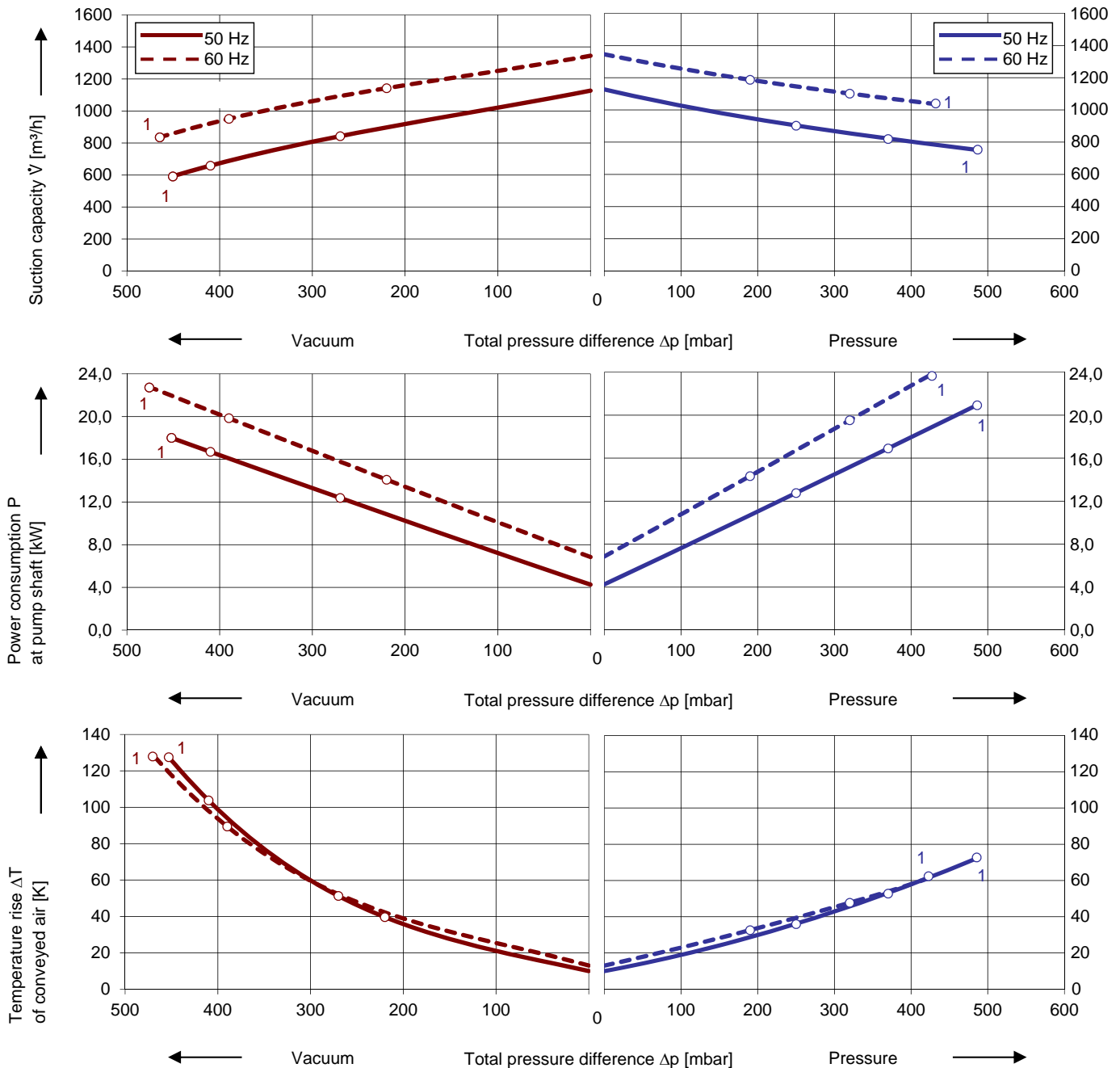
IE3



Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data										
Type ISS-1502										
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)	kg		
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	38.3△/22.1Y	21.3	-440	490	74	IE3	210	ISS-1502
	60	460-520△/790-870Y	38.0△/22.0Y	24.5	-460	430	84	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.





Data sheet ISS-1603

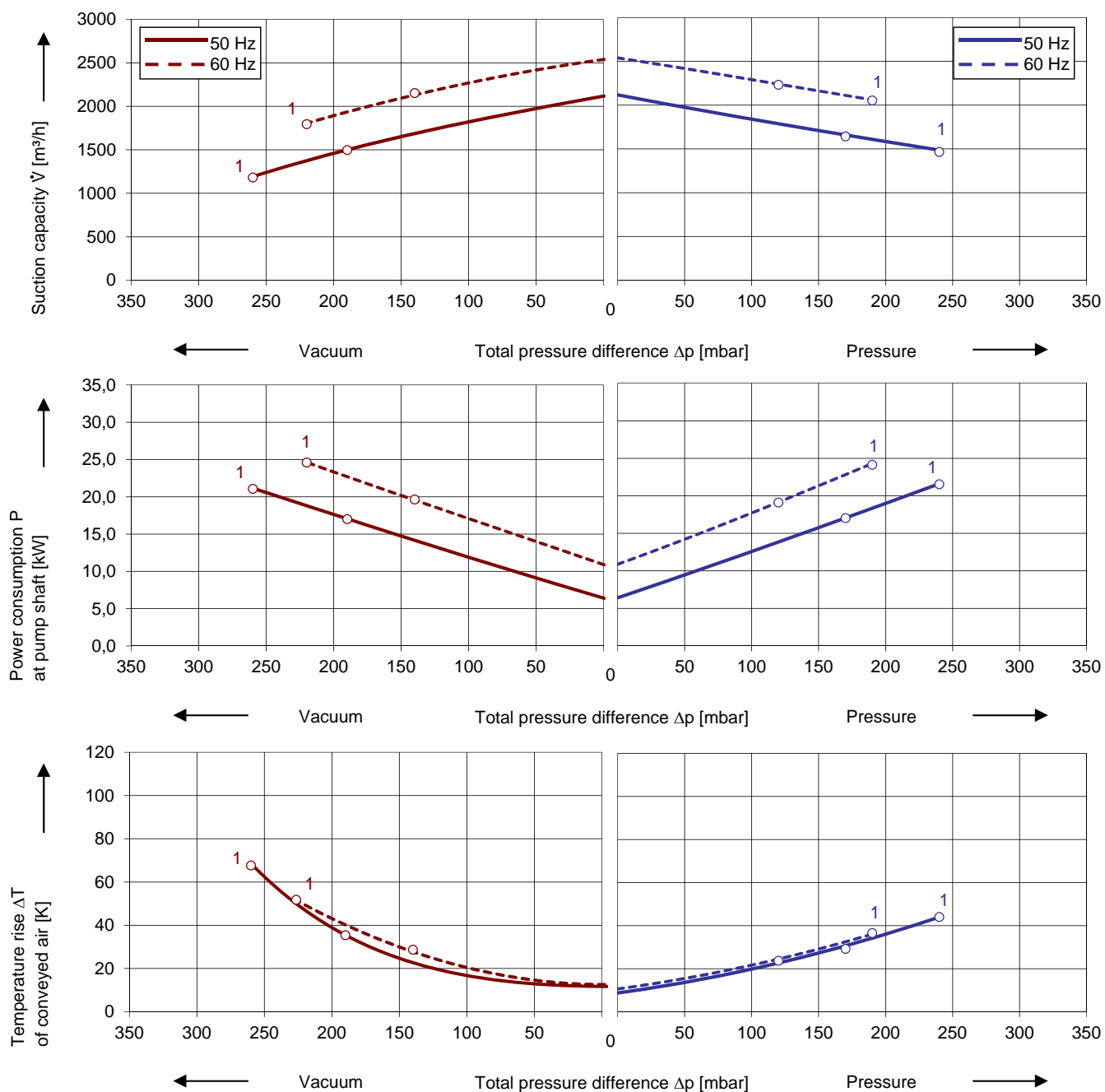
Side channel blower with IE3-motors



Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All ISS pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP55 and insulation class F.

Selection and ordering data

Type ISS-1603

No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	380-420△/660-725Y	38.3△/22.1Y	21.3	-260	240	75	IE3	260	ISS-1603
	60	460-520△/790-870Y	38.0△/22.0Y	24.5	-220	190	84	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).

All ISS series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are $\pm 10\%$.

The frequency tolerance is $\pm 2\%$ maximum.





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