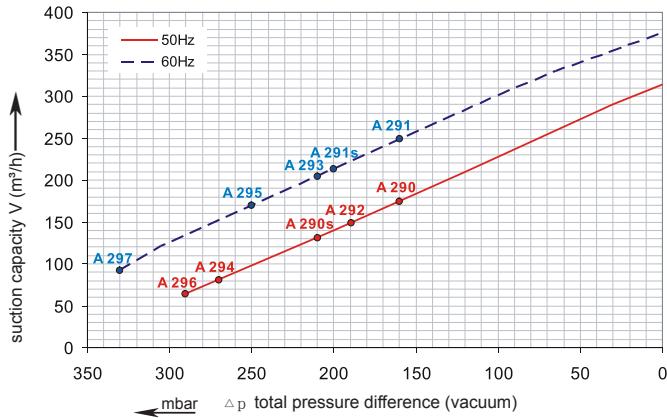
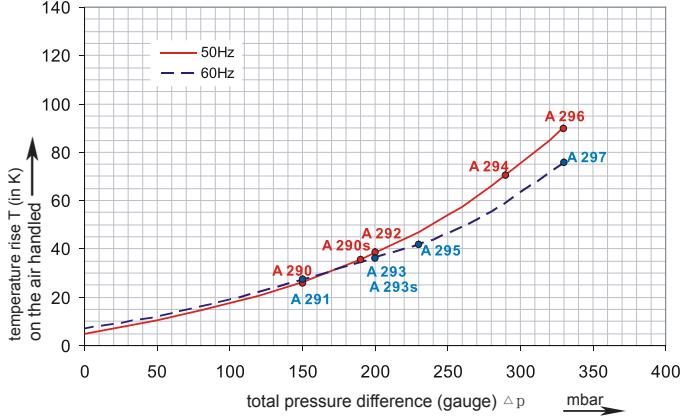
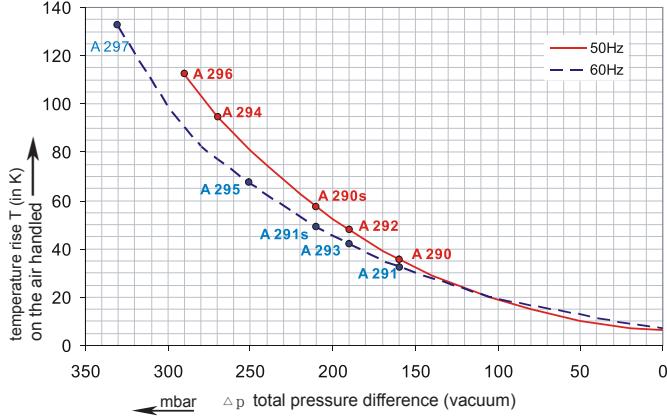
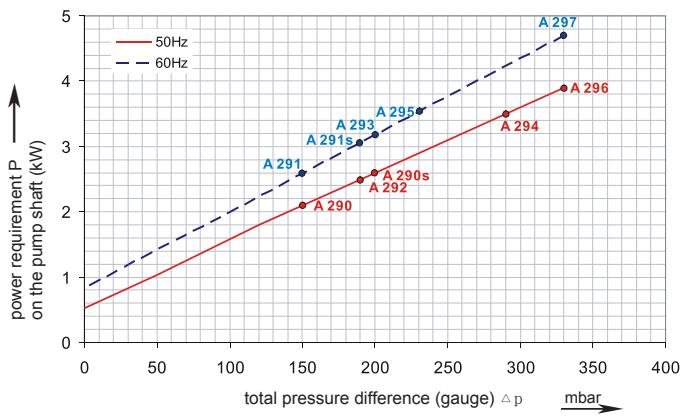
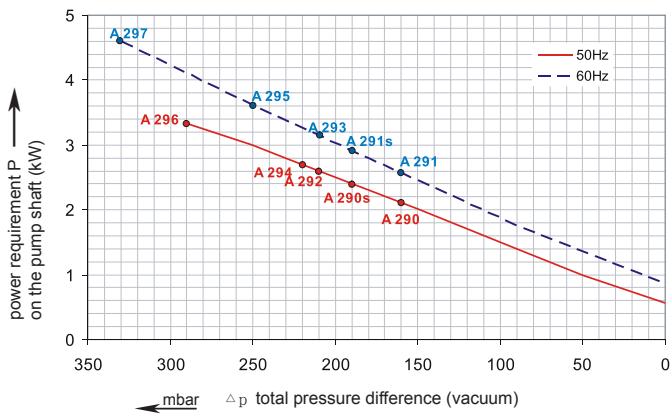
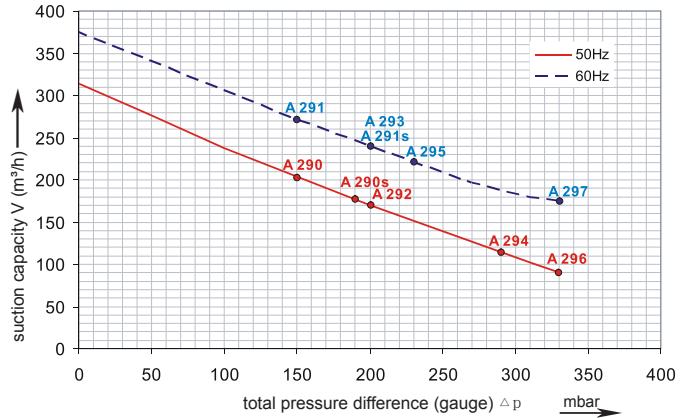


PUMP: ORB 71

Performance Curve for Vacuum



Performance Curve for Compressor



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 temperatures up to 25 °C.
 For other conditions please confer with us.

Each UÜO 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 for protection category IP 55 as well as approved for UL and CSA.

Selection and ordering data

Type CF6 '+%

Curve No.	Order No.	Frequency Hz	Rated power kW	Input voltage V	Input current A	Permissible total differential pressure ²⁾ Vacuum mbar	Sound pressure level ³⁾ Compressor mbar dB(A)	Weight ca. kg
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3~ 50/60 Hz IP55 insulation material class F 1)

A 290	UÜÖÄ FEEF EHM	50	1.6	200D ... 240D	345Y..415Y	8.5D	4.9Y	-160	150	69	27
A 291	UÜÖÄ FEEF EHM	60	2.1	220D ... 275D	380Y..480Y	8.8D	5.1Y	-160	150	72	27
A 292	UUÖÄ FEFGHMA	50	2.2	200D ... 240D	345Y..415Y	9.7D	5.6Y	-210	200	69	30
A 293	UUÖÄ FEFG IHA	60	2.55	220D ... 275D	380Y..480Y	10.3D	6.0Y	-210	200	72	30
A 294	UUÖÄ FEFFHMA	50	3.0	200D ... 240D	345Y..415Y	12.5D	7.2Y	-270	290	69	36
A 295	UUÖÄ FEFFHMA	60	3.45	220D ... 275D	380Y..480Y	12.6D	7.3Y	-250	230	72	36
A 296	UUÖÄ FEFFHMA	50	4.0	345D ... 415D	600Y..720Y	9.0D	5.2Y	-290	330	69	40
A 297	UUÖÄ FEFFHMA	60	4.6	380D ... 480D	660Y..720Y	9.0D	5.2Y	-330	330	72	40

1~ 50/60 Hz IP55 insulation material class F 1)

A 290s	UÜÖÄ FEFGHMA	50	2.2	230D		12.8D		-190	190	72	30
A 291s	UÜÖÄ FEFGHMA	60	2.55	230D		12.8D		-190	200	74	30



Other voltage ranges

UÜÖÄ F □ □		
50Hz	60Hz	↑ ↑
3~		
185...225 V D/320...390 V Y	200...240 V D/345...415 V Y	H 1
200...240 V D/345...415 V Y	200...275 V D/380...480 V Y	H 6
345...415 V D	380...480 V D	H 7
500 V D	575 V D	C 5

Machines according to the ATEX norm 94/4 EG are available for the whole performance range.

Following types available: Category 3 G, 3/2 G, 3 D and 3/2 D.

1~		
230V	230V	A 1

Further voltage range on request; please quote in plain text.

All UÜÖ 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 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 %.