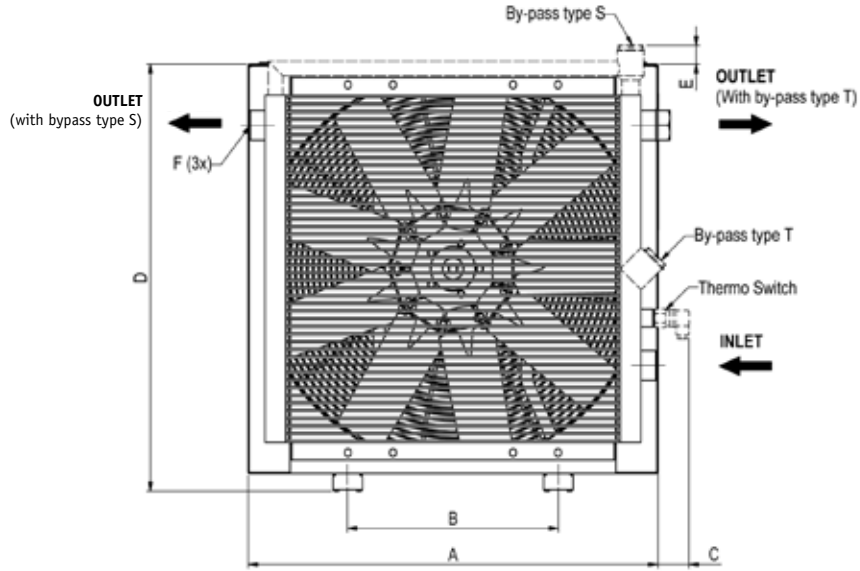


TYPE	Fan speed rpm	Fan capacity kW	Weight kg (approx)	Max speed rpm	Acoustic pressure level LpA dB(A) 1m*
LHC2 007	1500	0.10	10	3500	62
	3000	0.65	10	3500	79
LHC2 011	1500	0.20	15	3500	67
	3000	1.50	15	3500	82
LHC2 016	1000	0.10	18	3500	60
	1500	0.35	18	3500	70
	3000	2.50	18	3500	86
LHC2 023	1000	0.15	30	2840	64
	1500	0.50	30	2840	76
LHC 033	1000	0.65	40	2350	75
	1500	2.00	40	2350	85
LHC 044	1000	0.70	56	2350	77
	1500	2.00	56	2350	86
LHC 056	750	0.75	70	1850	74
	1000	1.80	70	1850	82
LHC 058	750	0.75	77	1850	75
	1000	1.80	77	1850	83
LHC 076	750	0.70	105	1690	80
	1000	1.60	105	1690	87
LHC 078	750	0.70	111	1690	81
	1000	1.60	111	1690	88
LHC 110	750	1.70	117	1440	85
	1000	4.00	117	1440	91
LHC 112	750	1.70	125	1440	86
	1000	4.00	125	1440	92
LHC 113	750	1.70	184	1440	87
	1000	4.00	184	1440	93

\* = Noise level tolerance  $\pm 3$  dB(A).

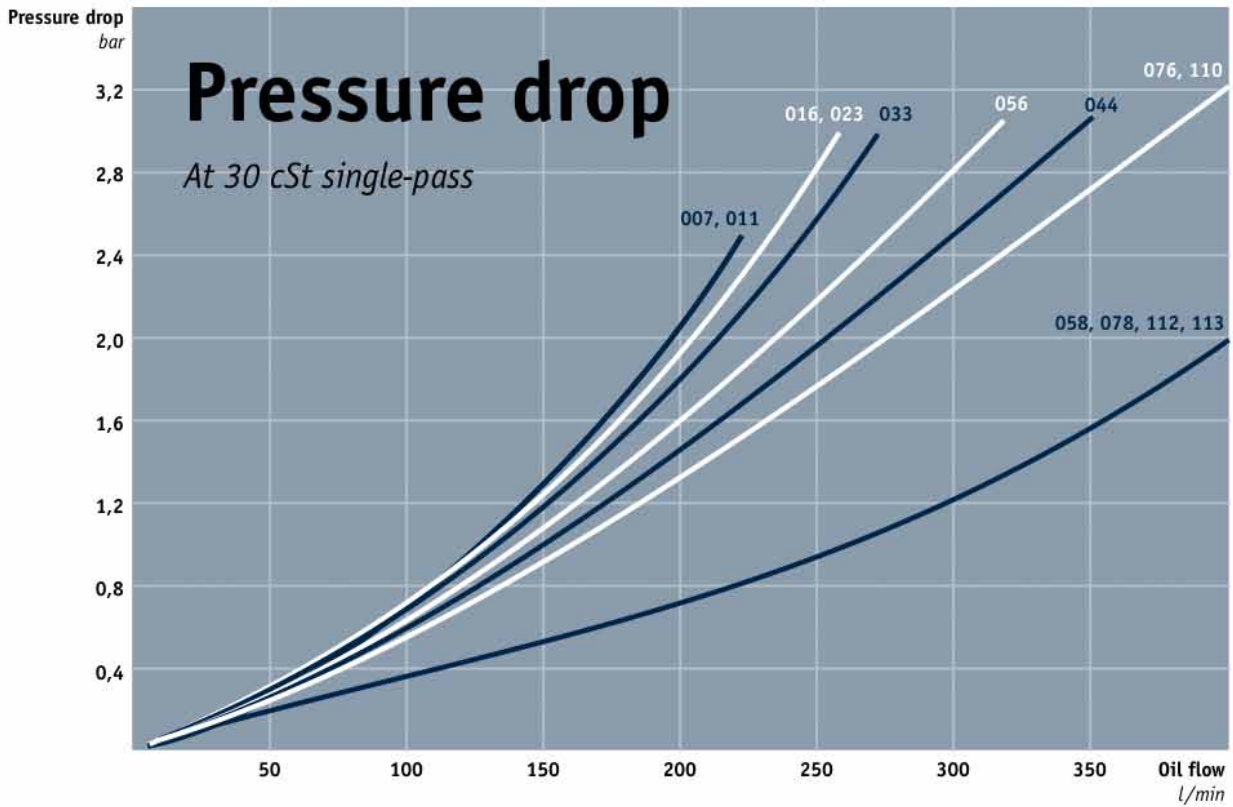


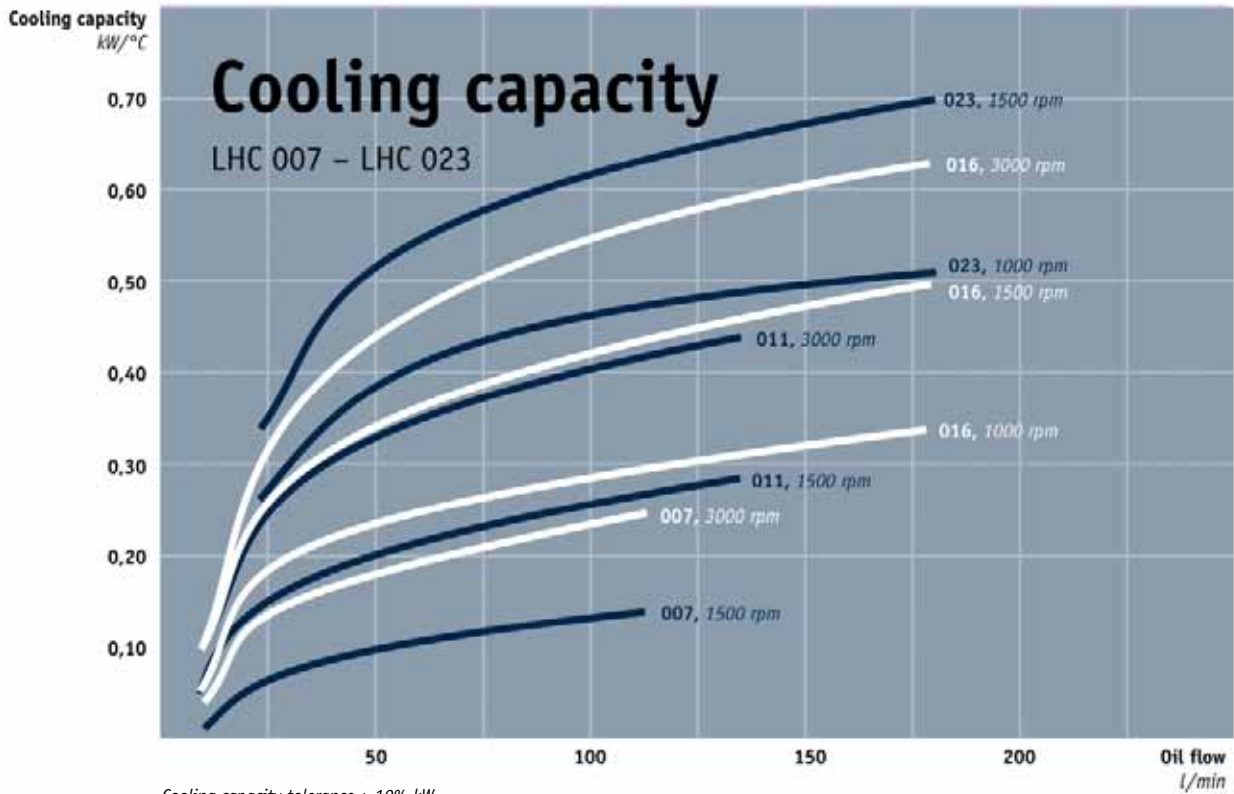
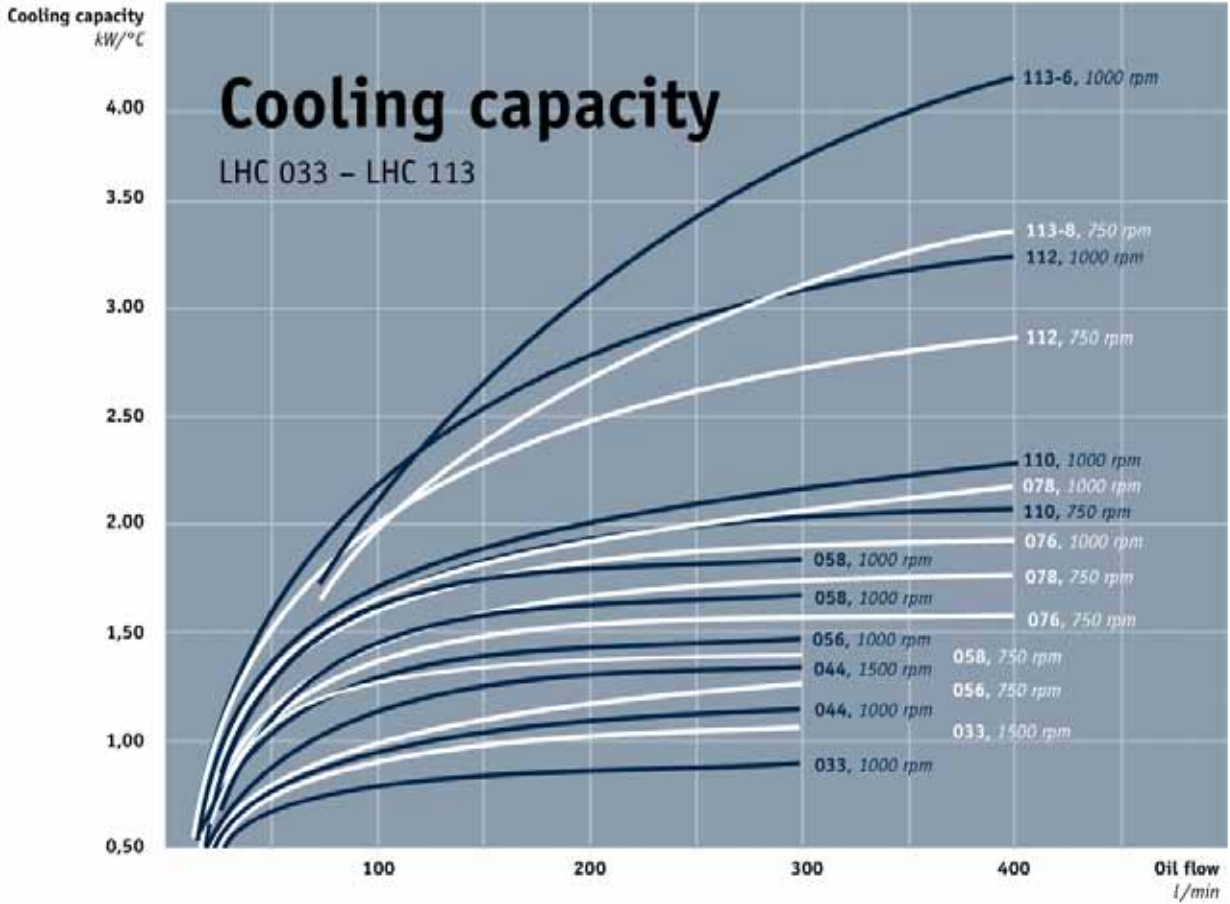
TYPE	A	B	C	D	E	F	G	H	I	J	K	L	M $\varnothing$
LHC2 007	365	203	64	395	42	G1	510	160	197	225	J+N	50	99
LHC2 011	440	203	62	470	41	G1	510	230	234	249	J+N	50	9
LHC2 016	496	203	66	526	46	G1	510	230	262	272	J+N	50	9
LHC2 023	580	356	44	610	44	G1	510	305	304	287	J+N	50	9
LHC 033	692	356	42	722	42	G1½	510	406	360	318	J+N	50	9
LHC 044	692	356	59	866	59	G1½	510	584	432	343	J+N	50	9
LHC 056	868	508	49	900	43	G1½	510	584	448	368	J+N	50	9
LHC 058	868	508	49	898	43	G2	510	584	448	388	J+N	30	9
LHC 076	1022	518	41	1052	45	G1½	610	821	525	393	J+N	70	14
LHC 078	1022	518	41	1052	45	G2	610	821	525	413	J+N	50	14
LHC 110	1185	600	54	1215	45	G2	610	985	607	418	J+N	70	14
LHC 112	1185	600	54	1215	45	G2	610	985	607	438	J+N	50	14
LHC 113	1200	600	82	1215	45	G2	610	985	607	485	J+N	132	14

MOTOR	Displacement cm <sup>3</sup> /r	N LHC2 007 -LHC2 023	N LHC 033 - LHC 112	O Angular connection	Max. working pressure bar
A	8.4	91	133	G½	210
B	10.8	98	138	G½	210
C	14.4	101	144	G½	210
D	16.8	105	148	G¾	210
E	19.2	110	151	G¾	210
F	25.2	120	165	G¾	160



The cooling capacity curves are based on the inlet oil temperature and the ambient air temperature. An oil temperature of 60 °C and an air temperature of 20 °C produce a temperature difference of 40 °C. Multiply by kW/°C for total cooling capacity.





# Key for LHC and LHC2 air oil coolers

All positions must be filled in when ordering

## EXAMPLE:

LHC2 - 016 - B - 50 - S20 - S - Z

1 2 3 4 5 6 7

### 1. AIR OIL COOLER

WITH HYDRAULIC MOTOR = LHC / LHC2

### 2. COOLER SIZE

007, 011, 016, 023, 033, 044, 056, 058, 076, 078, 110, 112 and 113.

### 3. HYDRAULIC MOTOR, DISPLACEMENT

No hydraulic motor	= 0
Displacement 8.4 cm <sup>3</sup> /r	= A
Displacement 10.8 cm <sup>3</sup> /r	= B
Displacement 14.4 cm <sup>3</sup> /r	= C
Displacement 16.8 cm <sup>3</sup> /r	= D
Displacement 19.2 cm <sup>3</sup> /r	= E
Displacement 25.2 cm <sup>3</sup> /r	= F
Special	= X

(X: pressure, displacement, installation sizes, etc. must be stated in plain language)

### 4. THERMO CONTACT

No thermo contact	= 00
40 °C	= 40
50 °C	= 50
60 °C	= 60
70 °C	= 70
80 °C	= 80
90 °C	= 90

### 5. COOLER MATRIX

Standard	= 000
Two-pass	= T00
<b>Built-in, pressure-controlled bypass, single-pass</b>	
2 bar	= S20
5 bar	= S50
8 bar	= S80
<b>Built-in, pressure-controlled bypass, two-pass*</b>	
2 bar	= T20
5 bar	= T50
8 bar	= T80
<b>Built-in temperature and pressure-controlled bypass, single-pass</b>	
50 °C, 2.2 bar	= S25
60 °C, 2.2 bar	= S26
70 °C, 2.2 bar	= S27
90 °C, 2.2 bar	= S29
<b>Built-in temperature and pressure-controlled bypass, two-pass*</b>	
50 °C, 2.2 bar	= T25
60 °C, 2.2 bar	= T26
70 °C, 2.2 bar	= T27
90 °C, 2.2 bar	= T29

### 6. MATRIX GUARD

No guard	= 0
Stone guard	= S
Dust guard	= D
Dust and stone guard	= P

### 7. STANDARD/SPECIAL

Standard	= 0
Special	= Z

## Technical specification

### FLUID COMBINATIONS

Mineral oil	HL/HLP in accordance with DIN 51524
Oil/water emulsion	HFA, HFB in accordance with CETOP RP 77H
Water glycol	HFC in accordance with CETOP RP 77H
Phosphate ester	HFD-R in accordance with CETOP RP 77H

### MATERIAL

Cooler matrix	Aluminum
Fan blades/hub	Glass fibre reinforced polypropylene/ Aluminum
Fan housing	Steel
Fan guard	Steel
Other parts	Steel
Surface treatment	Electrostatically powder-coated

### COOLER MATRIX

Maximum static operating pressure	21 bar
Dynamic operating pressure	14 bar*
Heat transfer limit	± 6 %
Maximum oil inlet temperature	120 °C

\* Tested in accordance with ISO/DIS 10771-1

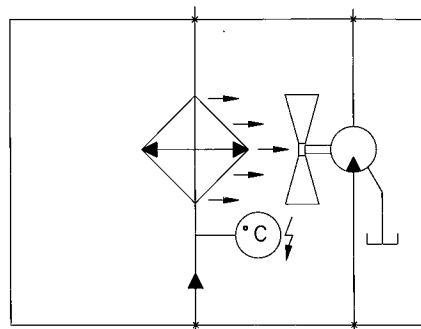
### COOLING CAPACITY CURVES

The cooling capacity curves in this technical data sheet are based on tests in accordance with EN 1048 and have been produced using oil type ISO VG 46 at 60 °C.

### CONTACT OLAER FOR ADVICE ON

- Oil temperatures > 120 °C
- Oil viscosity > 100 cSt
- Aggressive environments
- Ambient air rich in particles
- High-altitude locations

### CONNECTION CHART



Connection chart for LHC air oil cooler.

The information in this brochure is subject to change without prior notice.