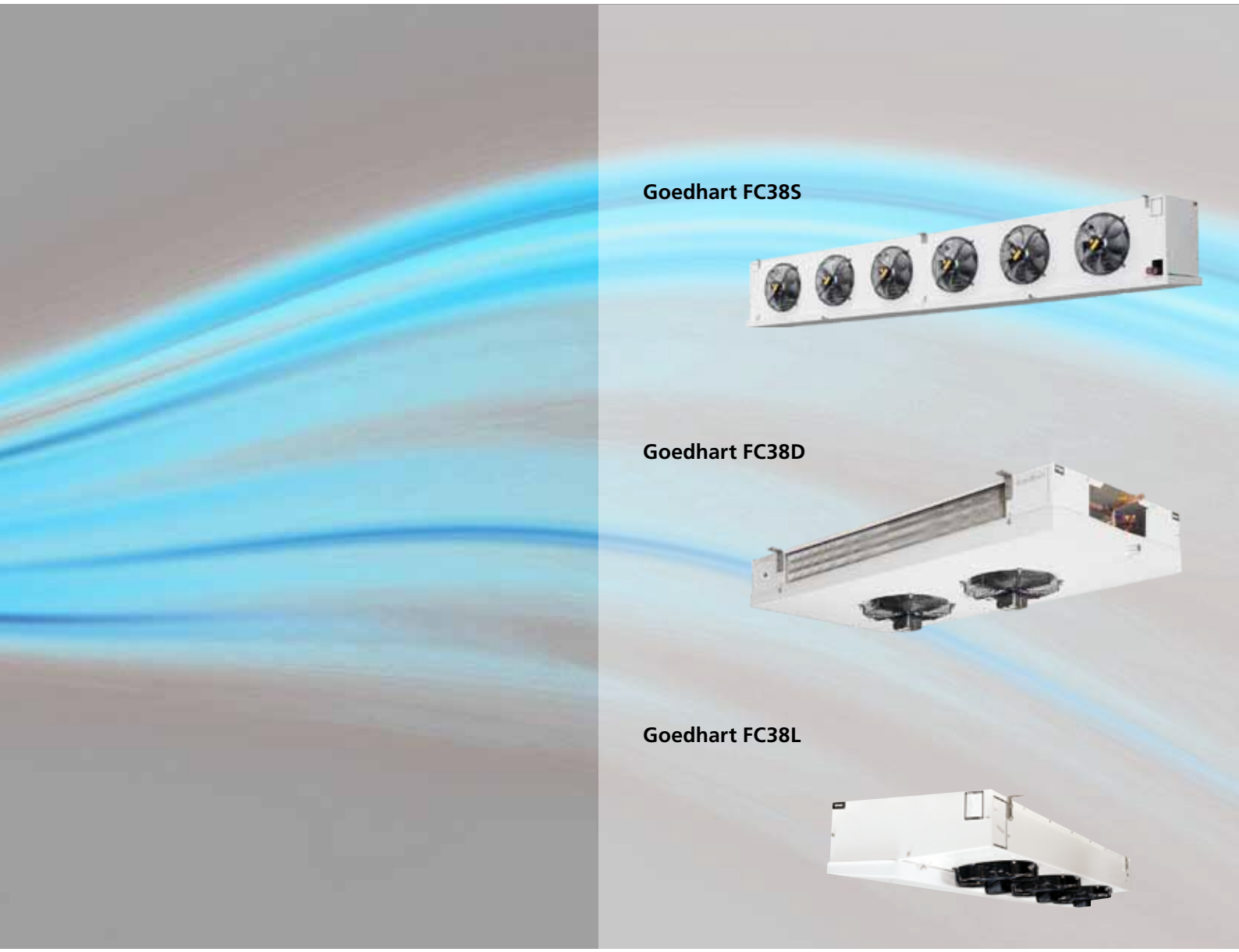


Goedhart FC38

Standard air coolers
Cu/Al

R404A - Coolants



Goedhart FC38

The range GEA Goedhart FC38 standard ceiling mounted air coolers are standard air coolers for cooling and freezing applications (FC38S), working/preparation rooms and storage rooms for humidity sensitive products (FC38D) and for cold storage rooms with height limitation (FC38L).
The standard FC38 aircoolers are suitable for all known refrigerants and not corrosive coolants, with the exception of NH3.

Type description

FC38Si(dx) 6.2.40.7-230-E

FC38S	=Ceiling mounted air coolers	2	= Number of fans
FC38D	= Dual discharge air coolers		
FC38L	= Extra low air cooler	40	= Fan diameter in cm
i	= internally enhanced tubes	7	= Fin spacing
p	= plain tubes		
		230	= 1x230V Fan tension
(dx)	= R404A	400	= 3x400V Fan tension
(G)	= coolant		
		E	= Electrical defrost
6	= number of tubes deep	H	= Hot gas defrost

General features

Coil block

- Tube distance : 38x33 mm versprongen
- Tubes : 12mm o.d copper tube
- : I= internally enhanced tubes for refrigerants (dx)
  P= internally plain tubes for coolants(G) and refrigerants (dx)
- Fins : aluminium HT-fins
- Fin spacing : 4 mm : Suitable for applications with air temperatures above 0°C and with expected limited frost
  : 7 mm : Suitable for applications with air temperatures below 0°C and expected frost
- A good thermal with the fins contact because the copper tubes are mechanically expanded into fully collared aluminium fins.
- The suction header is executed with a Schräder valve for testing applications
- All coil blocks for refrigerants are pressure tested to 40 bars. All coil blocks for coolants are pressure tested to 15 bars.
- FC38 aircoolers are supplied with a light overpressure charge.

Casing

- Standard refrigerant connections are fixed on the left hand side of the unit when looking with the direction of the air flow.
- Construction suitable for mounting to the ceiling.
- The FC38 casing is made from galvanized sheet steel , with exception of:
  - FC38S drip tray is hinged and made from light aluminum.
  - FC38D has a fixed galvanized drip tray.
  - FC38L drip tray is hinged and made from light aluminum.
- The fans of the FC38D are mounted to the outside of the drip tray of the air cooler and are wired.
- Goedhart FC38SB and FC38L air cooler is executed with a short air conduction plate as standard.
- The casing has a corrosion resistant white epoxy spray finish (RAL 9003).
- Almost all fixing materials are made of stainless steel to prevent corrosion.
- A possible hot gas spiral or electric defrost elements will be fixed to the bottom side of the coil

Standard options

Optional extra's	FC38S	FC38D	FC38L
Draw through execution	•		
Insulated driptray	•		
StSt casing	•	•	•
Goldlack fins (4 / 7 mm)	•	•	•
Almg fins (4 mm)	•	•	•

Options on request

Optional extra's	FC38S	FC38D	FC38L
Hot gas defrost	•		
Warm glycol defrost	•		
Fan heating	•		•
Splash plate	•		
StSt tubes	•	•	•

P.E.D.

All air coolers produced by Goedhart comply with the Pressure Equipment Directive 97/23/EC . PED certificates can be downloaded from www.goedhart.nl.

Guarantee

Goedhart gives in confomity with her general conditions of delivery the following guarantee perionde on the Goedhart FC38 air coolers:

- within a 12 month period of product use
- at the latest within 18 months after the time of delivery.

Sound data

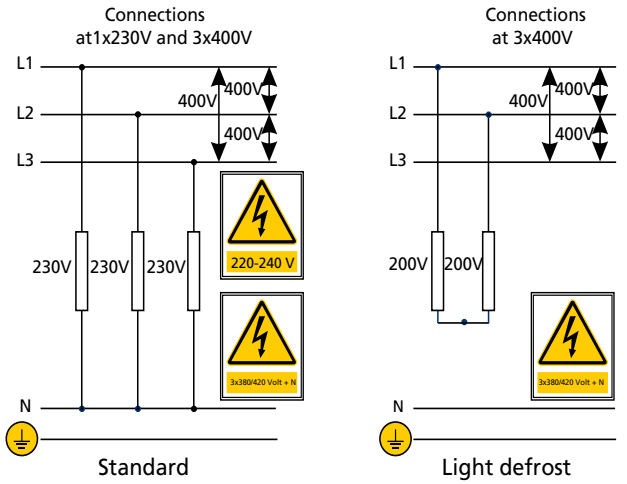
The mean sound pressure (LpA @ 3m ± 2 dB (A)) each air cooler is a calculated indication value according to the EN13487 standard parallel pipe. Goedhart uses the fan manufacturer's sound power level (LwA) at the inlet side of the fan. Changes to or by the fan or the product, affect the sound, in these cases, consult the manufacturer for the new indication value. In critical sound requirements, we advise you to consult an expert.

Defrost systems

For room temperatures where ripe formation can be expected and where the coil can not be defrosted by the room air, electrical or hot gas defrost is necessary

Electrical defrost

On request FC38 can be provided with electrical defrost. FC38 is always delivered with heavy defrost. The heater elemenst are rated for 220/240 V and are 400/420 V with zero wire supply. The stainless steel heater elements are fitted in the coilblock in inner tubes which forme a highly conductive medium between the heaters and the fins. In the drip-tray, the heater elements are fitted to the bottom side of the underside of the aluminum inner tray. The heater elements in the coil block are removable from the header side of the unit, whilst the tray heater elements can be removed once the outer tray has been taken off.



Hot gas defrost

The coil block is suited for hot gas defrost (hot gas supply through the suction header). The drip tray can be provided with a copper hot gas spiral, which is enclosed in special aluminum profiles, which are rigidly secured to underside of the aluminum inner tray.

Mounting & Maintenance

FC38 is delivered in a wooden crate. FC38S will be delivered with the separate drip-tray. When crated, FC38 can be handled by crane or fork-lift truck, which makes it very easy to mount. The driptray of the FC38S is delivered separately. For maintenance and instructions see our manual delivered on order or can be downloaded from our web site www.goedhart.nl.





Fans

GEA Goedhart FC38 aircoolers are executed with Ziehl Abegg: (We reserve the right to alter the manufacturer).

The fans are suitable for operation in air temperatures between -25°C to +40°C. When the air temperature is lower then -25°C, special fans are needed. These speciale fans have a longer delivery time. The protection class is IP54. The fans are not available with stainless steel protection guards
At all GEA Goedhart FC38 air cooler types (FC38S, FC38D and FC38L) the fans are mounted to the outside of aircooler!

The technical data in the table are the same as on the motor name plates and is valid for an air temperature of +20 °C. Also the data are given for working in an air temperature of 0 °C and -20 °C.

1x230V-50Hz

The standard connection tension for the Ziehl Abegg fans is 230V-50Hz-1 phase for the fan diameters Ø250, Ø300, Ø350, Ø400, Ø450 and Ø500. The fan motors of the Ø250, Ø300 and Ø350 mm fans are standard equiped with internally connected thermo contacts. Ø400, Ø450 and Ø500 mm fans are equiped with thermical contacts lead outside.

3x400V-50Hz

The EBMpapst Ø400, Ø450 and Ø500 fan is on request available in 230/400V-50Hz-3 phase. The fan is executed with a thermical contact lead to the outside.

Connecting thermical contacts

If the thermical contacts are not connected the warranty on the fans expires.

Frequency controlling

When a frequency converter is applied, always an All pole sinus filter should be used!

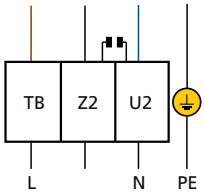
Fan type	Values at 1x230V-50Hz					Sound power indication ach fan LwA (+/-2dB(A))	Wiring diagram
	Speed	Input	+20°C FLC	0°C FLC	-20°C FLC		
	tpm	[W]	[A]	[A]	[A]	[dBA]	
4 pole fans (1500 rpm nominial)							
FN025	1370	50	0,24	0,26	0,28	62	177X
FN030	1290	90	0,39	0,43	0,45	65	177X
FN035	1260	170	0,75	0,82	0,87	75	177X
FN040	1370	240	1,10	1,20	1,28	76	104XB
FN045	1320	550	2,50	2,73	2,90	80	104XB
FN050	1230	750	3,30	3,60	3,83	81,5	104XB
6 pole fans (1000 tpm nominal)							
FN040	950	130	0,58	0,63	0,67	68	104XB
FN045	910	190	0,90	0,98	1,04	68,5	104XB
FN050	910	300	1,30	1,42	1,51	71,5	104XB

Fan type	Values at 3x400V(Δ)-50Hz					Sound power indication ach fan LwA (+/-2dB(A))	Wiring diagram
	Speed	Input	+20°C FLC	0°C FLC	-20°C FLC		
	tpm	[W]	[A]	[A]	[A]	[dBA]	
4 pole fans (1500 rpm nominial)							
FN040	1370	230	0,40	0,44	0,46	76	108XB
FN045	1250	350	0,64	0,69	0,74	78	108XB
FN050	1300	770	1,70	1,85	1,97	81	108XB

Wiring diagram

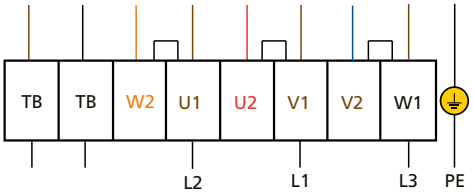
Ziehl Abegg 1x230V-50Hz (177X)

U2= blue or grey
Z2= black
TB=braun



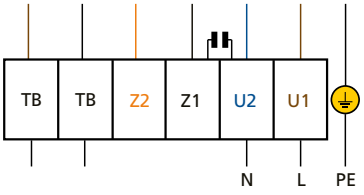
Ziehl Abegg 3x400V (Δ)-50Hz (108XB)

U1 =braun
V1 =blue
W1=black
U2 =red
V2 =grey
W2=orange
TB =white



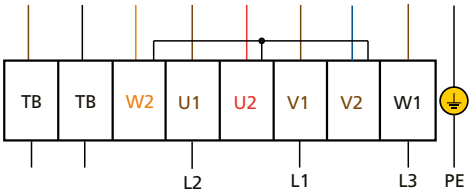
Ziehl Abegg 1x230V-50Hz (104XB)

U1 =braun
U2 =blue
Z1 =black
Z2 =orange
TB =white



Ziehl Abegg 3x400V (Y)-50Hz (108XB)

U1 =braun
V1 =blue
W1=black
U2 =red
V2 =grey
W2=orange
TB =white



Correction factors DT1 (=Air-on)

The nominale capacities of the Goedhart FC38i(dx) and FC38p(dx) air coolers are based on R-404A direct expansion, DT1 and a RH of 85%. DT1 it the difference between air-on temperature and the evaporation temperature of the cooler. The evaporation temperature is the saturated temperature corresponding to the pressure at the suction outlet of the cooler.

The nominal capacities:

(SC1) t_o = 0 °C and DT1= 10 K
(SC2) t_o = -8°C and DT1= 8 K
(SC3) t_o = - 25°C and DT1= 7 K

Correction factors for various evaporation temperatures and temperature differences (DT1) are as indicated in the tables below. The requested capacity must be multiplied by a correction factor from the table. so that a cooler with the resulting nominal capacity can be chosen from the selection tables.

Q nominal = factor x Q requested

R404A — SC1 DT1 = 10K, Air on = 10°C (0/+10°C)

DT1	Evaporation temperature (°C)									
K	+7	+6	+5	+4	+3	+2	+1	0	-1	-2
6	1,81	1,81	1,82	1,82	1,83	1,83	1,84	1,84	1,84	1,85
7	1,49	1,50	1,50	1,50	1,51	1,51	1,52	1,52	1,52	1,53
8	1,27	1,28	1,28	1,29	1,29	1,29	1,30	1,30	1,30	1,31
9	1,10	1,10	1,11	1,11	1,12	1,12	1,13	1,13	1,13	1,14
10	0,97	0,98	0,98	0,99	0,99	0,99	1,00	1,00	1,00	1,01
11	0,88	0,88	0,88	0,89	0,89	0,90	0,90	0,90	0,90	0,91
12	0,79	0,79	0,79	0,80	0,80	0,81	0,81	0,81	0,81	0,82

R404A — SC2 DT1 = 8K, Air on = 0°C (-8/0°C)

DT1	Evaporation temperature (°C)									
K	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12
6	1,30	1,34	1,38	1,42	1,42	1,43	1,43	1,43	1,44	1,44
7	1,04	1,07	1,10	1,14	1,17	1,18	1,18	1,18	1,19	1,19
8	0,86	0,88	0,91	0,94	0,97	1,00	1,00	1,01	1,01	1,01
9	0,75	0,75	0,77	0,79	0,82	0,84	0,87	0,87	0,87	0,88
10	0,66	0,66	0,66	0,68	0,70	0,72	0,74	0,77	0,77	0,77
11	0,59	0,59	0,59	0,59	0,61	0,63	0,65	0,67	0,69	0,69
12	0,54	0,54	0,54	0,54	0,54	0,55	0,57	0,58	0,60	0,62

R404A — SC3 DT1 = 7K, Air on = -18°C (-25/-18°C)

DT1	Evaporation temperature (°C)									
K	-21	-22	-23	-24	-25	-26	-27	-28	-29	-30
6	1,20	1,20	1,21	1,21	1,21	1,22	1,22	1,23	1,23	1,23
7	0,99	0,99	0,99	1,00	1,00	1,00	1,00	1,01	1,01	1,02
8	0,84	0,84	0,84	0,85	0,85	0,85	0,85	0,86	0,86	0,86
9	0,73	0,73	0,73	0,73	0,73	0,74	0,74	0,74	0,74	0,75
10	0,64	0,64	0,64	0,64	0,65	0,65	0,65	0,65	0,66	0,66
11	0,57	0,57	0,57	0,58	0,58	0,58	0,58	0,58	0,59	0,59
12	0,52	0,52	0,52	0,52	0,52	0,52	0,53	0,53	0,53	0,53

Capacity optimization

To achieve the best possible combination of application, refrigerant and capacity, Goedhart can optimise the coil circuiting, depending on the specific conditions under which the products will be used. FC38 is a standard product to ensure shorter delivery times. The circuiting of these evaporators has been optimized according to the most commonly used coolants/ refrigerants and conditions. Specific applications can vary from this, our sales department is there to assist you in selecting the best circuiting for your application.

Correction factors for coolants

The nominal capacities of the Goedhart FC38p(G) air coolers are based on an air-on temperature of 12°C, a RH of 85% and:

Water : in / out temperatuur = +1/+5°C
E-Glycol : in / out temperatuur = - 2/+3°C
P-Glycol : in / out temperatuur = - 2/+3°C
Pekasol : in / out temperatuur = - 2/+3°C
Freezium : in / out temperatuur = - 2/+3°C

Correction factors for various air-on temperatures and refrigerants or secondary coolants are as indicated in the tables below. The requested capacity must be multiplied by a correction factor from the table, so that a cooler with te resulting nominal capacity can be chosen from the selection tables.

Q nominal = faktor x Q requested

Water

in/out	Air-on temperature (°C)								
°C	+8	+9	+10	+11	+12	+13	+14	+15	+16
1 / 5	1,99	1,59	1,32	1,14	1,00	0,88	0,78	0,72	0,66
2 / 6		1,95	1,57	1,30	1,12	0,98	0,87	0,78	0,71
3 / 7			1,92	1,54	1,28	1,11	0,97	0,86	0,77
4 / 8				1,94	1,56	1,31	1,13	0,98	0,87
5 / 9					1,86	1,49	1,25	1,07	0,94

E-Glycol 28%

in/out	Air-on temperature (°C)								
°C	+8	+9	+10	+11	+12	+13	+14	+15	+16
-2 / 3	1,81	1,46	1,34	1,16	1,00	0,88	0,82	0,81	0,69
-1 / 4	2,35	1,72	1,41	1,28	1,10	0,96	0,85	0,79	0,75
0 / 5	2,43	2,30	1,64	1,40	1,24	1,06	0,93	0,84	0,76
1 / 6		2,38	2,28	1,59	1,37	1,21	1,05	0,92	0,82
2 / 7			2,28	2,09	1,55	1,35	1,17	1,03	0,91

P-Glycol 28%

in/out	Air-on temperature (°C)								
°C	+8	+9	+10	+11	+12	+13	+14	+15	+16
-2 / 3	1,66	1,45	1,26	1,11	1,00	0,91	0,83	0,76	0,70
-1 / 4	2,00	1,65	1,42	1,24	1,11	1,01	0,90	0,81	0,77
0 / 5	2,48	1,94	1,65	1,41	1,23	1,14	1,00	0,91	0,85
1 / 6		2,46	1,97	1,64	1,42	1,29	1,12	1,00	0,92
2 / 7			2,45	1,96	1,63	1,64	1,28	1,11	1,00

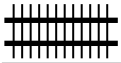
Pekasol 50%

in/out	Air-on temperature (°C)								
°C	+8	+9	+10	+11	+12	+13	+14	+15	+16
-2 / 3	1,68	1,42	1,26	1,11	1,00	0,90	0,82	0,77	0,70
-1 / 4	2,02	1,65	1,42	1,24	1,10	0,98	0,89	0,81	0,76
0 / 5	2,39	1,96	1,62	1,39	1,22	1,07	0,96	0,87	0,80
1 / 6		2,36	1,93	1,60	1,37	1,20	1,06	0,94	0,86
2 / 7			2,32	1,89	1,57	1,35	1,18	1,05	0,94

Freezium 24%

in/out	Air-on temperature (°C)								
°C	+8	+9	+10	+11	+12	+13	+14	+15	+16
-2 / 3	1,66	1,44	1,25	1,11	1,00	0,91	0,83	0,77	0,71
-1 / 4	1,94	1,62	1,42	1,23	1,09	0,98	0,89	0,82	0,76
0 / 5	2,38	1,91	1,59	1,39	1,21	1,07	0,97	0,88	0,81
1 / 6		2,34	1,88	1,57	1,37	1,20	1,06	0,95	0,86
2 / 7			2,30	1,86	1,55	1,35	1,18	1,05	0,94

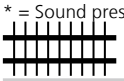
Goedhart FC38Si(dx) - R404A

 =4 mm

Type	Fan diameter	1x230V-50Hz-4 pole (1500 min⁻¹ nom.) SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	SC3 DT1 = 7K Air on =-18°C -25 / -18	Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	Connections I	Connections K	Weight	Internal volume
FC38S	mm	kW	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³
4.1.25.4	1x250	2,4	1,7		632	40,8	7	12	12	26	2
4.1.30.4	1x300	4,0	2,7		1124	43,7	11	12	28	34	3
6.1.30.4	1x300	4,4	3,1		980	43,7	16	12	28	39	4
6.1.35.4	1x350	7,7	5,3		1794	53,5	25	12	28	51	6
6.1.40.4	1x400	10,7	7,3		2531	54,4	34	16	28	63	8
6.1.45.4	1x450	17,7	12,0		4565	58,3	45	16	28	75	10
4.2.30.4	2x300	7,9	5,4		2241	46,5	22	12	28	50	5
6.2.30.4	2x300	8,8	6,1		1952	46,5	32	12	28	61	7
6.2.35.4	2x350	15,4	10,5		3578	56,3	50	16	28	82	11
6.2.40.4	2x400	21,3	14,5		5051	57,1	68	16	35	103	15
6.2.45.4	2x450	35,3	23,9		9115	61,0	90	16	35	122	19
6.2.50.4	2x500	43,4	29,4		11131	62,3	112	16	42	204	24
6.3.30.4	3x300	13,2	9,1		2923	48,1	49	16	28	81	11
6.3.35.4	3x350	23,0	15,8		5363	57,8	75	16	28	112	16
6.3.40.4	3x400	32,3	22,2		7570	58,6	102	16	35	142	22
6.3.45.4	3x450	52,9	35,8		13665	62,5	134	16	42	174	28
6.3.50.4	3x500	65,4	44,4		16686	63,8	168	16	54	291	35
6.4.30.4	4x300	17,5	12,0		3895	49,2	65	16	28	104	14
6.4.35.4	4x350	30,6	21,0		7148	58,9	99	16	35	143	21
6.4.40.4	4x400	43,1	29,4		10089	59,7	136	22	42	183	29
6.4.45.4	4x450	70,7	47,8		18214	63,5	179	22	54	222	38
6.4.50.4	4x500	87,0	58,9		22242	64,7	224	28	54	376	47
6.5.45.4	5x450	89,0	60,1		22764	64,2	223	22	54	267	47
6.6.45.4	6x450	106,2	71,5		27314	64,7	268	28	54	322	56

Air cooler details

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

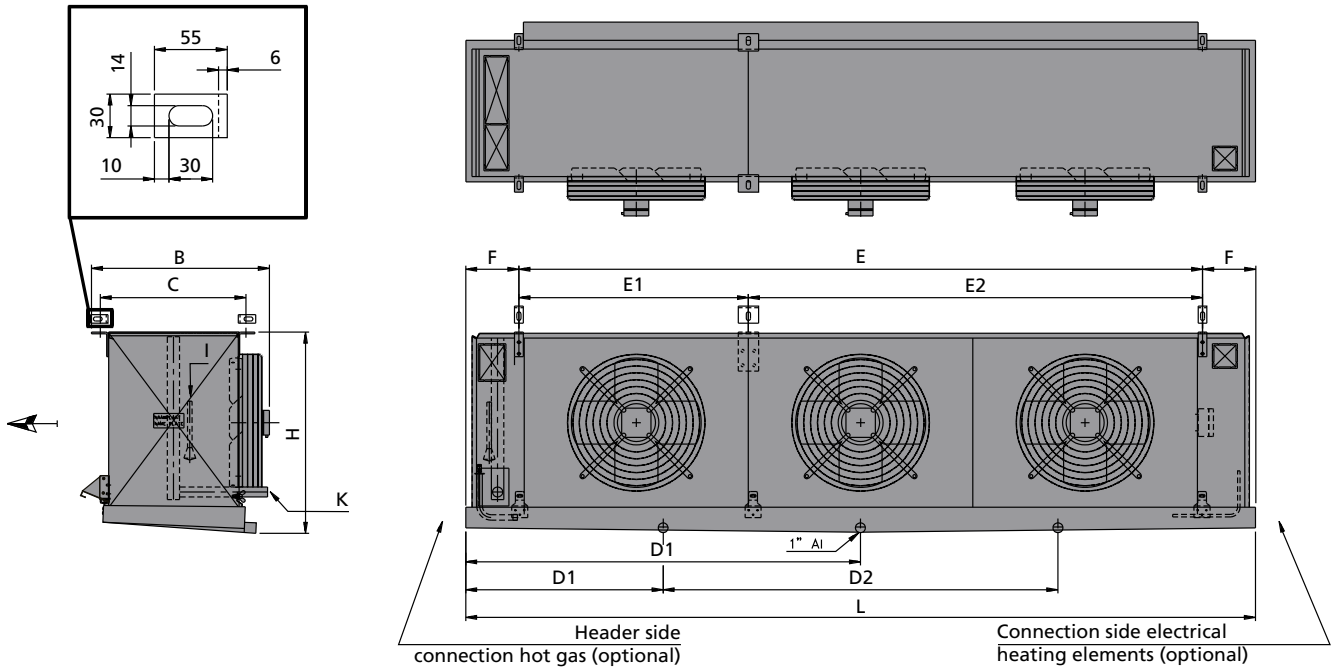
 =7 mm

Type	Fan diameter	1x230V-50Hz-4 pole (1500 min⁻¹ nom.) SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	SC3 DT1 = 7K Air on =-18°C -25 / -18	Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	Connections I	Connections K	Weight	Internal volume
FC38S	mm	kW	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³
4.1.25.7	1x250	1,8	1,2	0,9	720	40,8	4	12	12	25	2
4.1.30.7	1x300	3,0	2,0	1,5	1309	43,7	7	12	28	32	3
6.1.30.7	1x300	3,9	2,6	1,9	1194	43,7	10	12	28	36	4
6.1.35.7	1x350	6,4	4,4	3,2	2103	53,5	15	12	28	46	6
6.1.40.7	1x400	9,0	6,1	4,5	2964	54,4	21	16	28	57	8
6.1.45.7	1x450	14,1	9,5	6,9	5217	58,3	27	16	28	67	10
4.2.30.7	2x300	5,9	4,0	2,9	2612	46,5	13	12	28	47	5
6.2.30.7	2x300	7,7	5,2	3,9	2381	46,5	19	12	28	56	7
6.2.35.7	2x350	12,8	8,7	6,4	4199	56,3	30	16	28	74	11
6.2.40.7	2x400	17,6	12,1	8,7	5918	57,1	41	16	28	92	15
6.2.45.7	2x450	28,1	18,9	13,9	10423	61,0	54	16	35	109	19
6.2.50.7	2x500	34,7	23,4	17,2	12823	62,3	67	16	35	186	24
6.3.30.7	3x300	11,5	7,8	5,8	3568	48,1	29	12	28	74	11
6.3.35.7	3x350	19,3	13,1	9,6	6295	57,8	45	16	28	100	16
6.3.40.7	3x400	26,8	18,3	13,4	8873	58,6	61	16	28	126	22
6.3.45.7	3x450	42,0	28,2	20,5	15628	62,5	80	16	42	152	28
6.3.50.7	3x500	52,0	35,0	25,8	19226	63,8	101	16	42	263	35
6.4.30.7	4x300	15,0	10,3	7,6	4754	49,2	39	16	28	93	14
6.4.35.7	4x350	25,7	17,5	12,7	8389	58,9	60	16	35	127	21
6.4.40.7	4x400	35,5	24,1	17,9	11828	59,7	82	16	35	161	29
6.4.45.7	4x450	56,3	37,7	27,7	20834	63,5	107	16	42	193	38
6.4.50.7	4x500	69,7	46,7	34,3	25630	64,7	134	28	54	339	47
6.5.45.7	5x450	70,2	47,0	34,7	26040	64,2	134	22	54	229	47
6.6.45.7	6x450	84,4	56,5	40,9	31246	64,7	161	22	54	279	56

Air cooler details

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

Goedhart FC38Si(dx) - R404A



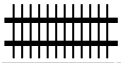
Declarations

Connection ≤ 35 mm	: Declaration of incorporation (SEP)
Connection 42mm and 54 mm	: module A
Group of fluid	: 2
PS	: 28 bar
TS	: +55 / -40 °C

Type	Dimensions										Electrical defrost at 3x400V-50Hz					
	L	B	H	C	E	E1	E2	F	D1	D2	Coil block		Drip tray		Standard	Light
FC38S	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	number	O [mm]	number	O [mm]	kW	kW**
4.1.25.*	690	510	395	400	406			142	345		2x L=1000	66	1x L=1600	200	1,4	
4.1.30.*	765	510	470	400	481			142	383		2x L=1300	66	1x L=1600	200	1,6	
6.1.30.*	765	510	470	400	481			142	383		2x L=1300	66	1x L=1600	200	1,6	
6.1.35.*	970	640	550	500	606			182	485		3x L=1600	132	1x L=2200	300	2,8	
6.1.40.*	1070	640	625	500	706			182	535		3x L=1900	132	1x L=2500	300	3,3	
6.1.45.*	1170	640	700	500	806			182	585		5x L=1900	132	1x L=2500	300	4,8	3,7
4.2.30.*	1210	510	470	400	926			142	605		2x L=2200	66	1x L=2500	200	2,8	
6.2.30.*	1210	510	470	400	926			142	605		2x L=2200	66	1x L=2500	200	2,8	
6.2.35.*	1540	640	550	500	1176			182	770		3x L=2800	132	1x L=3100	300	4,8	
6.2.40.*	1740	640	625	500	1376			182	870		3x L=3100	132	1x L=3700	300	5,4	
6.2.45.*	1940	640	700	500	1576			182	970		5x L=3700	132	1x L=4000	300	9,4	7,1
6.2.50.*	2040	830	850	600	1576			232	1020		5x L=3700	132	1x L=4300	400	9,6	7,2
6.3.30.*	1655	510	470	400	1371			142	828		2x L=3100	66	1x L=3700	200	4,1	
6.3.35.*	2110	640	550	500	1746			182	1055		3x L=4000	132	1x L=4600	300	6,1	
6.3.40.*	2410	640	625	500	2046			182	1205		3x L=4600	132	1x L=5200	300	8,0	
6.3.45.*	2710	640	700	500	2346			182	1355		5x L=5200	132	1x L=5800	300	13,5	10,2
6.3.50.*	2810	830	850	600	2346			232	1405		5x L=5200	132	2x L=5800	400	13,5	10,2
6.4.30.*	2100	510	470	400	1816			142	1050		2x L=4000	66	1x L=4600	200	5,3	
6.4.35.*	2680	640	550	500	2316			182	1340		3x L=5200	132	1x L=5800	300	9,1	
6.4.40.*	3080	640	625	500	2716			182	770	1540	3x L=5800	132	1x L=6700	300	10,3	
6.4.45.*	3480	640	700	500		1558	1558	182	870	1740	5x L=6700	132	1x L=7300	300	17,6	13,4
6.4.50.*	3580	830	850	600		1558	1558	232	895	1790	5x L=6700	132	1x L=7600	400	17,8	13,5
6.5.45.*	4250	640	700	500		1558	2328	182	1063	2125	10x L=4300	-	2x L=4600	-	22,0	16,6
6.6.45.*	5020	640	700	500		2328	2328	182	1255	2510	10x L=4900	-	2x L=5200	-	25,1	18,9

Dimensions & Electrical defrost

Goedhart FC38Di(dx) - R404A

 =4 mm

Type	Fan diameter	1x230V-50Hz-4 pole				1x230V-50Hz-6 pole				Surface	Connections		Weight	Internal volume	Air cooler details
		SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*	SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*		I	K			
FC38D	mm	kW	kW	m³/h	dB(A)	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.30.4	1x300	4,3	2,9	954	43,7					16	12	28	54	4	
6.1.35.4	1x350	6,5	4,4	1597	53,5					20	12	28	66	6	
6.2.30.4	2x300	8,3	5,7	1858	46,5					30	12	28	82	8	
6.2.35.4	2x350	11,8	8,0	2908	56,3					34	16	28	92	8	
6.2.40.4	2x400	19,1	12,9	4697	57,1	15,2	10,5	3326	49,1	61	16	35	123	14	
6.2.45.4	2x450	36,1	24,5	9276	61,0	26,2	18,1	5919	49,5	95	16	42	161	20	
6.3.30.4	3x300	12,8	8,9	2873	48,1					48	16	28	114	10	
6.3.35.4	3x350	16,7	11,4	4150	57,8					48	16	28	116	10	
6.3.40.4	3x400	29,4	20,2	7051	58,6	22,9	15,8	4993	50,6	91	16	35	169	20	
6.3.45.4	3x450	54,9	37,3	14031	62,5	39,4	27,2	8964	51,0	146	22	42	228	32	
6.4.30.4	4x300	16,6	11,4	3721	49,2					61	16	28	138	14	
6.4.35.4	4x350	21,5	14,7	5376	58,9					61	16	28	139	14	
6.4.40.4	4x400	36,3	24,8	8832	59,7	28,1	19,4	6262	51,7	110	16	42	200	24	

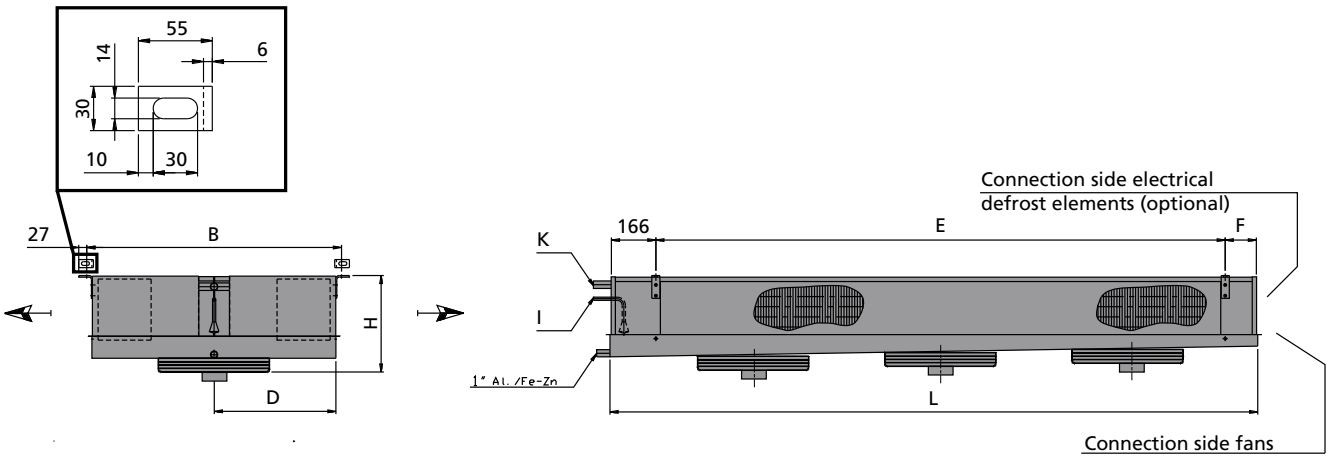
* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

 =7 mm

Type	Fan diameter	1x230V-50Hz-4 pole				1x230V-50Hz-6 pole				Surface	Connections		Weight	Internal volume	Air cooler details
		SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*	SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*		I	K			
FC38D	mm	kW	kW	m³/h	dB(A)	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.30.7	1x300	3,7	2,5	1167	43,7					10	12	28	51	4	
6.1.35.7	1x350	5,3	3,5	1918	53,5					12	12	28	62	6	
6.2.30.7	2x300	7,1	4,9	2288	46,5					18	12	28	77	8	
6.2.35.7	2x350	9,8	6,7	3562	56,3					21	12	28	87	8	
6.2.40.7	2x400	16,3	11,0	5625	57,1	13,1	9,0	3976	49,1	36	16	28	114	14	
6.2.45.7	2x450	28,3	19,1	10479	61,0	21,7	14,8	6804	49,5	57	16	35	145	20	
6.3.30.7	3x300	11,1	7,6	3509	48,1					29	16	28	107	10	
6.3.35.7	3x350	14,0	9,5	5131	57,8					29	12	28	109	10	
6.3.40.7	3x400	24,4	16,6	8441	58,6	29,6	13,3	5967	50,6	55	16	35	154	20	
6.3.45.7	3x450	42,8	28,9	15801	62,5	33,0	22,6	10266	51,0	88	16	42	203	32	
6.4.30.7	4x300	14,3	9,8	4581	49,2					36	16	28	128	14	
6.4.35.7	4x350	18,1	12,2	6682	58,9					36	16	28	129	14	
6.4.40.7	4x400	30,4	20,6	10796	59,7	24,6	16,9	7630	51,7	66	16	35	181	24	

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

Goedhart FC38Di(dx) - R404A





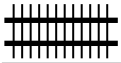
Fans mounted to the outside of the driptray!

Declarations

Connection ≤ 35 mm	: Declaration of incorporation (SEP)
Connection 42mm and 54 mm	: module A
Group of fluid	: 2
PS	: 28 bar
TS	: +55 / -40 °C

Type	Dimensions						Electrical defrost at 3x400V-50Hz					
	L	B	H	D	E	F	Coil block		Drip tray		Standard	Light
FC38D	mm	mm	mm	mm	mm	mm	number	O [mm]	number	O [mm]	kW	kW**
6.1.30.*	925	850	305	405	575	166	2x L=1600	132	2x L=1600	150	2,5	
6.1.35.*	1080	850	330	405	730	166	2x L=1900	132	2x L=1900	150	3,0	
6.2.30.*	1425	850	325	405	1075	166	2x L=2500	132	2x L=2500	150	4,1	
6.2.35.*	1570	850	350	405	1220	166	2x L=2800	132	2x L=2800	150	4,6	
6.2.40.*	1775	950	420	455	1425	166	4x L=3100	132	2x L=3400	150	8	6,1
6.2.45.*	2025	1000	520	480	1675	166	4x L=3700	132	2x L=3700	150	9,3	7,0
6.3.30.*	2025	850	325	405	1675	166	2x L=3700	132	2x L=3700	150	6,2	
6.3.35.*	2025	850	350	405	1675	166	2x L=3700	132	2x L=3700	150	6,2	
6.3.40.*	2475	950	420	455	2125	166	4x L=4600	132	2x L=4600	150	11,6	8,8
6.3.45.*	2850	1000	520	480	2550	116	4x L=5500	132	2x L=5500	150	14,0	10,6
6.4.30.*	2475	850	325	405	2125	166	2x L=4600	132	2x L=4600	150	7,8	
6.4.35.*	2475	850	350	455	2125	166	2x L=4600	132	2x L=4600	150	7,8	
6.4.40.*	2850	950	420	480	2550	116	4x L=5500	132	2x L=5500	150	14,0	10,6

Goedhart FC38Li(dx) - R404A

 =4 mm

Type	Fan diameter	1x230V-50Hz-4 pole (1500 min⁻¹ nom.) SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	SC3 DT1 = 7K Air on =-18°C -25 / -18	Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	Connections I	Connections K	Weight	Internal volume	Air cooler details
FC38L	mm	kW	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.25.4	1x250	2,3	1,6		510	40,8	9	12	12	15	2	
6.1.30.4	1x300	3,7	2,6		841	43,7	13	12	28	20	3	
6.1.40.4	1x400	9,6	6,6		2287	54,4	29	16	28	40	7	
6.2.25.4	2x250	4,6	3,2		1020	43,7	18	12	28	25	4	
6.2.30.4	2x300	7,4	5,1		1681	46,5	26	12	28	35	6	
6.2.40.4	2x400	19,1	13,0		4573	57,1	58	16	35	60	13	
6.3.30.4	3x300	11,2	7,7		2522	48,1	39	16	28	45	9	
6.3.40.4	3x400	28,8	19,7		6860	58,6	87	16	35	90	19	
6.4.30.4	4x300	14,8	10,2		3363	49,2	52	16	28	60	11	

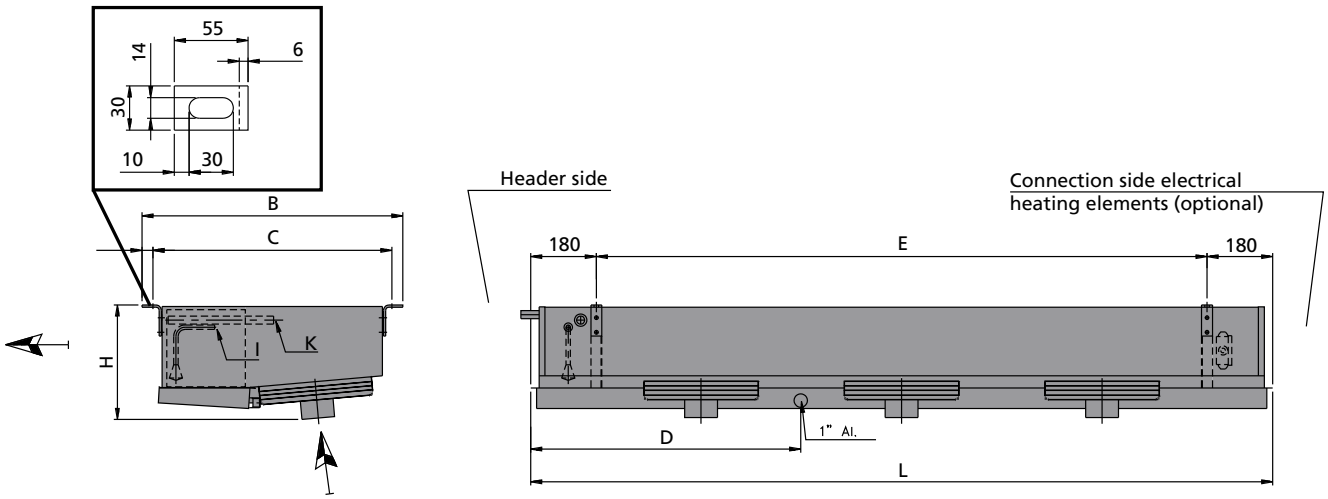
* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

 =7 mm

Type	Fan diameter	1x230V-50Hz-4 pole (1500 min⁻¹ nom.) SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	SC3 DT1 = 7K Air on =-18°C -25 / -18	Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	Connections I	Connections K	Weight	Internal volume	Air cooler details
FC38L	mm	kW	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.25.7	1x250	2,0	1,4	1,0	612	40,8	5	12	12	15	2	
6.1.30.7	1x300	3,2	2,2	1,6	1061	43,7	8	12	28	20	3	
6.1.40.7	1x400	8,0	5,4	4,0	2764	54,4	17	16	28	30	7	
6.2.25.7	2x250	4,1	2,8	2,0	1225	43,7	11	12	28	20	4	
6.2.30.7	2x300	6,6	4,5	3,3	2122	46,5	16	12	28	30	6	
6.2.40.7	2x400	15,8	10,8	7,8	5527	57,1	35	12	35	55	13	
6.3.30.7	3x300	9,8	6,7	4,9	3184	48,1	23	16	28	40	9	
6.3.40.7	3x400	24,1	16,4	12,0	8291	58,6	52	16	35	80	19	
6.4.30.7	4x300	13,2	9,0	6,5	4245	49,2	31	16	28	55	11	

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

Goedhart FC38Li(dx) - R404A



Declarations

Connection ≤ 35 mm	: Declaration of incorporation (SEP)
Connection 42mm and 54 mm	: module A
Group of fluid	: 2
PS	: 28 bar
TS	: +55 / -40 °C

Type	Dimensions					Electrical defrost at 3x400V-50Hz				Standard
	L	B	H	E	D1	Coil block		Drip tray		
FC38L	mm	mm	mm	mm	mm	number	O [mm]	number	O [mm]	kW
6.1.25.*	890	705	280	530	245	2x L=1300	132	1x L=1300	175	1,5
6.1.30.*	990	705	315	630	295	2x L=1600	132	1x L=1600	175	1,9
6.1.40.*	1190	865	465	830	295	3x L=1900	132	1x L=2200	175	3,2
6.2.25.*	1390	705	280	1030	695	2x L=2500	132	1x L=2500	175	3,1
6.2.30.*	1590	705	315	1230	795	2x L=2800	132	1x L=2800	175	3,5
6.2.40.*	1990	865	465	1630	995	3x L=3700	132	1x L=3700	175	6,2
6.3.30.*	2190	705	315	1830	795	2x L=4000	132	1x L=4000	175	5,0
6.3.40.*	2790	865	465	2430	995	3x L=5200	132	1x L=5200	175	8,8
6.4.30.*	2790	705	315	2430	1395	2x L=5200	132	1x L=5200	175	6,6

Goedhart FC38Sp(G) - coolants

=4 mm

Type	1x230V-50Hz-4 pole (1500 min⁻¹ nom.)															Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	Connections		Weight	Internal volume
	E-Glycol 28% -2 / 3 °C (in/uit temp.)			Water 1 / 5 °C (in/uit temp.)			P-Glycol 34% -2 / 3 °C (in/uit temp.)			Pekasol 50% -2 / 3 °C (in/uit temp.)			Freezium 24% -2 / 3 °C (in/uit temp.)						I	K		
	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop							
FC38S	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	m³/h	dB(A)	m²	mm	mm	kg	dm³
4.1.25.4	1,8	0,33	10,1	2,0	0,42	11,6	1,9	0,35	98,1	2,9	0,50	133,6	2,3	0,43	14,6	632	40,8	7	16	16	26	2
4.1.30.4	3,0	0,55	22,2	3,8	0,81	49,2	2,8	0,51	47,0	4,5	0,78	55,9	4,7	0,89	68,9	1124	43,7	11	16	16	34	3
6.1.30.4	3,7	0,70	18,8	4,3	0,91	29,5	3,9	0,70	96,5	5,0	0,85	32,4	5,3	0,99	41,1	980	43,7	16	16	16	39	4
6.1.35.4	6,1	1,13	22,3	7,6	1,63	48,2	6,2	1,12	89,1	9,2	1,58	56,0	9,5	1,79	68,0	1794	53,5	25	22	22	51	6
6.1.40.4	10,2	1,90	55,5	10,8	2,31	59,7	8,3	1,51	84,0	13,6	2,26	70,5	13,5	2,54	84,5	2531	54,4	34	28	28	63	8
6.1.45.4	17,0	3,16	64,9	17,3	3,71	65,5	12,1	2,19	94,5	21,1	3,62	77,1	21,7	4,07	92,6	4565	58,3	45	28	28	75	10
4.2.30.4	8,3	1,54	83,8	7,9	1,69	76,0	5,1	0,93	49,3	9,7	1,66	90,5	9,3	1,75	43,9	2241	46,5	22	22	22	50	5
6.2.30.4	9,5	1,77	73,2	9,0	1,93	65,1	6,8	1,23	55,1	11,1	1,91	78,2	11,3	2,13	92,7	1952	46,5	32	22	22	61	7
6.2.35.4	17,2	3,19	91,4	15,8	3,37	76,8	11,1	2,01	78,2	19,4	3,33	92,6	19,3	3,63	68,7	3578	56,3	50	28	28	82	11
6.2.40.4	24,4	4,53	97,5	22,1	4,73	80,3	15,2	2,76	95,4	27,3	4,68	97,0	27,3	5,13	80,4	5051	57,1	68	35	35	103	15
6.2.45.4	37,8	7,03	85,5	35,3	7,54	73,9	21,5	3,90	93,9	43,3	7,42	88,4	43,6	8,19	82,2	9115	61,0	90	42	42	122	19
6.2.50.4	46,5	8,64	83,0	43,8	9,37	88,4	26,7	4,84	93,3	53,3	9,14	86,1	53,9	10,11	84,0	11131	62,3	112	54	54	204	24
6.3.30.4	14,2	2,63	59,3	13,8	2,95	91,1	10,1	1,84	101,8	16,6	2,85	63,9	17,0	3,18	75,8	2923	48,1	49	28	28	81	11
6.3.35.4	25,6	4,76	76,3	23,9	5,11	91,3	15,9	2,88	98,7	29,1	4,98	77,7	29,6	5,56	91,9	5363	57,8	75	35	35	112	16
6.3.40.4	36,4	6,76	82,8	33,4	7,14	88,5	21,3	3,86	96,5	40,8	7,00	82,7	41,6	7,80	97,6	7570	58,6	102	42	42	142	22
6.3.45.4	58,1	10,80	90,6	52,8	11,28	63,9	29,4	5,35	88,8	65,4	11,22	91,1	65,6	12,30	76,9	13665	62,5	134	54	54	174	28
6.3.50.4	71,8	13,35	91,8	76,4	14,02	76,5	36,4	6,61	84,6	80,7	13,84	92,0	81,2	15,23	82,6	16686	63,8	168	64	64	291	35
6.4.30.4	20,3	3,78	86,9	18,3	3,90	70,3	12,9	2,33	98,4	22,6	3,87	85,3	22,6	4,23	67,4	3895	49,2	65	35	35	104	14
6.4.35.4	35,4	6,59	93,9	32,0	6,85	99,8	19,7	3,57	83,3	39,2	6,73	91,5	39,4	7,40	83,1	7148	58,9	99	42	42	143	21
6.4.40.4	49,7	9,24	94,6	44,7	9,55	92,7	26,8	4,86	94,9	54,3	9,32	75,6	55,4	10,38	89,3	10089	59,7	136	54	54	183	29
6.4.45.4	78,3	14,55	92,6	70,7	15,11	66,9	36,6	6,63	83,8	87,6	15,02	92,0	87,5	16,42	73,8	18214	63,5	179	54	54	222	38
6.4.50.4	97,0	18,04	96,0	87,4	18,67	70,5	45,8	8,31	89,0	107,5	18,43	84,8	108,5	20,35	81,4	22242	64,7	224	64	64	376	47
6.5.45.4	98,4	18,30	93,6	88,6	18,93	68,7	43,0	7,80	79,4	109,0	18,70	82,7	109,4	20,53	71,8	22764	64,2	223	64	64	267	47
6.6.45.4	117,1	21,77	84,6	106,1	22,67	64,0	48,1	8,73	67,5	131,2	22,49	84,2	131,4	24,64	70,4	27314	64,7	268	76	76	322	56

Air cooler details

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

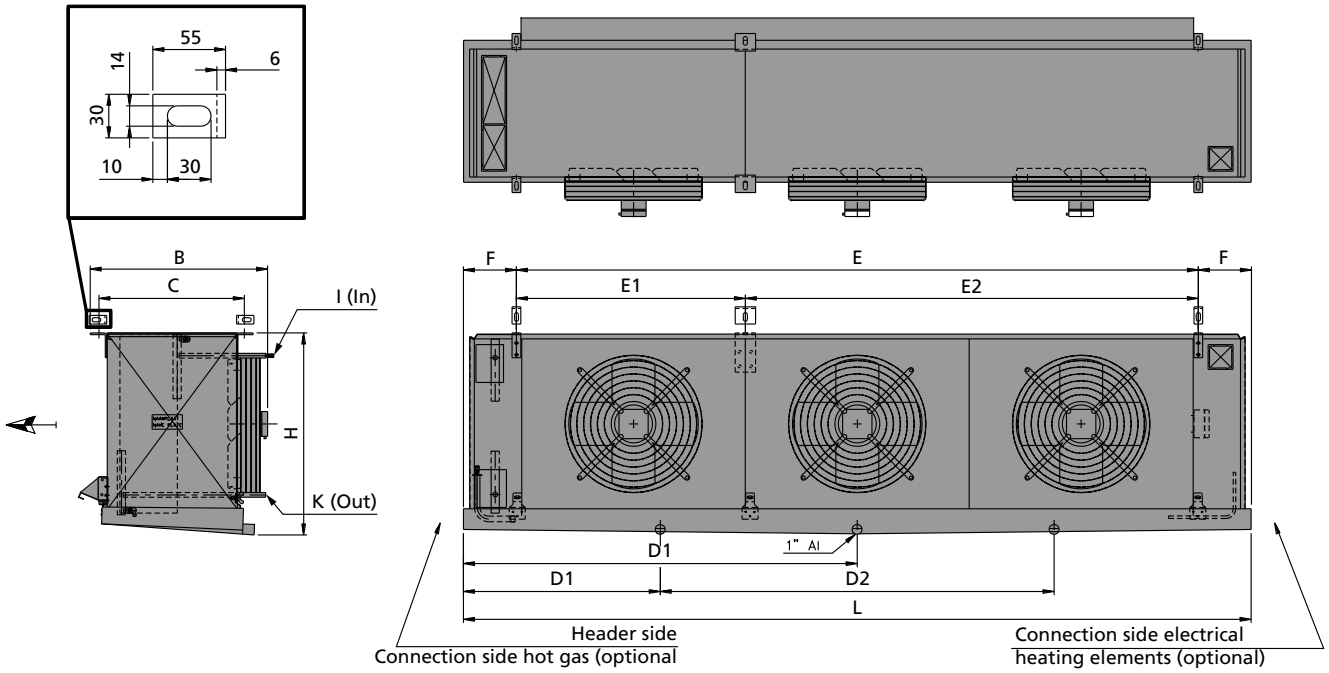
=7 mm

Type	1x230V-50Hz-4 pole (1500 min⁻¹ nom.)															Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	Connections		Weight	Internal volume
	E-Glycol 28% -2 / 3 °C (in/uit temp.)			Water 1 / 5 °C (in/uit temp.)			P-Glycol 34% -2 / 3 °C (in/uit temp.)			Pekasol 50% -2 / 3 °C (in/uit temp.)			Freezium 24% -2 / 3 °C (in/uit temp.)						I	K		
	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop							
FC38S	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	m³/h	dB(A)	m²	mm	mm	kg	dm³
4.1.25.7	1,6	0,31	37,4	1,8	0,39	67,8	1,6	0,29	80,1	2,2	0,38	79,8	2,3	0,42	96,3	720	40,8	4	16	16	25	2
4.1.30.7	2,5	0,46	18,4	2,8	0,61	29,5	2,4	0,43	39,2	3,3	0,56	32,0	3,5	0,66	41,1	1309	43,7	7	16	16	32	3
6.1.30.7	3,7	0,68	71,0	3,9	0,82	75,6	3,4	0,62	84,6	4,7	0,81	90,0	4,4	0,82	29,6	1194	43,7	10	16	16	36	4
6.1.35.7	6,7	1,24	86,2	6,5	1,38	79,5	5,3	0,96	76,7	7,9	1,36	95,2	7,7	1,44	46,6	2103	53,5	15	22	22	46	6
6.1.40.7	9,5	1,77	90,5	9,0	1,93	80,2	7,2	1,30	72,4	11,1	1,90	96,4	10,9	2,05	57,9	2964	54,4	21	22	22	57	8
6.1.45.7	13,9	2,59	70,1	13,8	2,95	67,2	10,3	1,87	80,6	16,9	2,89	79,9	17,3	3,25	95,4	5217	58,3	27	28	28	67	10
4.2.30.7	4,5	0,84	19,7	6,0	1,28	46,3	4,3	0,78	41,7	7,2	1,24	54,4	7,5	1,40	65,6	2612	46,5	13	16	16	47	5
6.2.30.7	6,2	1,16	22,9	7,7	1,63	48,6	6,3	1,15	91,5	9,3	1,60	57,7	9,6	1,80	69,1	2381	46,5	19	22	22	56	7
6.2.35.7	13,0	2,42	56,5	13,1	2,80	91,6	9,6	1,74	68,1	15,7	2,69	63,8	16,1	3,02	76,1	4199	56,3	30	28	28	74	11
6.2.40.7	18,7	3,48	61,5	18,2	3,89	82,4	13,2	2,40	83,0	22,0	3,77	66,6	22,5	4,22	79,1	5918	57,1	41	35	35	92	15
6.2.45.7	31,0	5,77	99,9	28,1	6,01	82,1	18,6	3,37	81,2	34,7	5,95	99,3	34,9	6,55	88,1	10423	61,0	54	35	35	109	19
6.2.50.7	37,7	7,00	85,2	35,0	7,48	91,2	23,1	4,19	80,8	42,7	7,33	86,7	42,6	7,99	66,5	12823	62,3	67	42	42	186	24
6.3.30.7	12,8	2,38	82,0	11,7	2,50	68,3	9,0	1,63	90,1	14,5	2,48	82,8	14,7	2,76	97,7	3568	48,1	29	28	28	74	11
6.3.35.7	21,2	3,94	75,9	19,7	4,22	94,2	13,9	2,52	86,2	24,0	4,12	77,0	24,5	4,59	90,9	6295	57,8	45	35	35	100	16
6.3.40.7	29,6	5,50	73,2	27,1	5,79	61,4	18,4	3,38	84,4	33,9	5,82	98,9	34,1	6,40	87,6	8873	58,6	61	42	42	126	22
6.3.45.7	46,3	8,61	86,1	42,5	9,07	87,1	26,4	4,78	96,0	52,0	8,91	85,9	52,5	9,84	83,5	15628	62,5	80	42	42	152	28
6.3.50.7	58,3	10,85	97,6	52,8	11,27	93,3	32,5	5,89	87,5	64,8	11,11	95,6	65,5	12,28	95,9	19226	63,8	101	54	54	263	35
6.4.30.7	16,5	3,07	60,4	15,7	3,36	82,8	11,4	2,07	87,5	19,1	3,27	63,4	19,5	3,65	75,1	4754	49,2	39	28	35	93	14
6.4.35.7	29,1	5,40	86,3	26,4	5,64	94,8	17,9	3,24	98,7	32,3	5,54	84,7	32,9	6,16	99,7	8389	58,9	60	42	42	127	21
6.4.40.7	40,2	7,48	79,0	36,6	7,82	80,0	23,6	4,27	83,5	45,4	7,78	97,6	45,7	8,57	92,0	11828	59,7	82	54	54	161	29
6.4.45.7	63,0	11,71	94,8	56,8	12,13	89,4	32,8	5,95	87,1	69,8	11,96	92,5	70,5	13,23	93,5	20834	63,5	107	54	54	193	38
6.4.50.7	77,6	14,43	89,8	70,5	15,06	94,0	41,0	7,43	89,8	86,3	14,79	88,2	87,3	16,38	92,0	25630	64,7	134	64	64	339	47
6.5.45.7	78,3	14,56	86,7	70,8	15,12	79,6	39,4	7,14	93,4	87,6	15,02	96,8	88,1	16,52	88,8	26040	64,2	134	64	64	229	47
6.6.45.7	94,9	17,64	92,0	85,1	18,17	81,9	45,6	8,26	97,5	105,4	18,07	99,7	105,6	19,82	85,6	31246	64,7	161	64	64	279	56

Air cooler details

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

Goedhart FC38Sp(G) - coolants



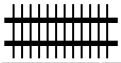
Declarations

According	: Declaration of incorporation (SEP)
Group of coolant	: 2
PS	: 10 bar
TS	: +50 / -40 °C

Type	Dimensions										Electrical defrost at 3x400V-50Hz					
	L	B	H	C	E	E1	E2	F	D1	D2	Coil block		Drip tray		Standard	Light
FC38S	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	number	O [mm]	number	O [mm]	kW	kW**
4.1.25.*	690	510	395	400	406			142	345		2x L=1000	66	1x L=1600	200	1,4	
4.1.30.*	765	510	470	400	481			142	383		2x L=1300	66	1x L=1600	200	1,6	
6.1.30.*	765	510	470	400	481			142	383		2x L=1300	66	1x L=1600	200	1,6	
6.1.35.*	970	640	550	500	606			182	485		3x L=1600	132	1x L=2200	300	2,8	
6.1.40.*	1070	640	625	500	706			182	535		3x L=1900	132	1x L=2500	300	3,3	
6.1.45.*	1170	640	700	500	806			182	585		5x L=1900	132	1x L=2500	300	4,8	3,7
4.2.30.*	1210	510	470	400	926			142	605		2x L=2200	66	1x L=2500	200	2,8	
6.2.30.*	1210	510	470	400	926			142	605		2x L=2200	66	1x L=2500	200	2,8	
6.2.35.*	1540	640	550	500	1176			182	770		3x L=2800	132	1x L=3100	300	4,8	
6.2.40.*	1740	640	625	500	1376			182	870		3x L=3100	132	1x L=3700	300	5,4	
6.2.45.*	1940	640	700	500	1576			182	970		5x L=3700	132	1x L=4000	300	9,4	7,1
6.2.50.*	2040	830	850	600	1576			232	1020		5x L=3700	132	1x L=4300	400	9,6	7,2
6.3.30.*	1655	510	470	400	1371			142	828		2x L=3100	66	1x L=3700	200	4,1	
6.3.35.*	2110	640	550	500	1746			182	1055		3x L=4000	132	1x L=4600	300	6,1	
6.3.40.*	2410	640	625	500	2046			182	1205		3x L=4600	132	1x L=5200	300	8,0	
6.3.45.*	2710	640	700	500	2346			182	1355		5x L=5200	132	1x L=5800	300	13,5	10,2
6.3.50.*	2810	830	850	600	2346			232	1405		5x L=5200	132	2x L=5800	400	13,5	10,2
6.4.30.*	2100	510	470	400	1816			142	1050		2x L=4000	66	1x L=4600	200	5,3	
6.4.35.*	2680	640	550	500	2316			182	1340		3x L=5200	132	1x L=5800	300	9,1	
6.4.40.*	3080	640	625	500	2716			182	770	1540	3x L=5800	132	1x L=6700	300	10,3	
6.4.45.*	3480	640	700	500		1558	1558	182	870	1740	5x L=6700	132	1x L=7300	300	17,6	13,4
6.4.50.*	3580	830	850	600		1558	1558	232	895	1790	5x L=6700	132	1x L=7600	400	17,8	13,5
6.5.45.*	4250	640	700	500		1558	2328	182	1063	2125	10x L=4300	-	2x L=4600	-	22,0	16,6
6.6.45.*	5020	640	700	500		2328	2328	182	1255	2510	10x L=4900	-	2x L=5200	-	25,1	18,9

Dimensions & Electrical defrost

Goedhart FC38Dp(G) - coolants

 =4 mm

Type	1x230V-50Hz-4 pole (1500 min⁻¹ nom.)																		Connections				Air cooler details
	E-Glycol 28% -2 / 3 °C (In/out temp.)			Water 1 / 5 °C (In/out temp.)			P-Glycol 34% -2 / 3 °C (In/out temp.)			Pekasol 50% -2 / 3 °C (In/out temp.)			Freezium 24% -2 / 3 °C (In/out temp.)			Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	I	K	Weight	Internal volume	
	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop								
FC38D	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.30.4	4,6	0,86	89,7	4,4	0,94	81,3	3,6	0,66	76,8	5,4	0,93	97,5	5,1	0,95	32,6	954	43,7	16	16	16	54	4	
6.1.35.4	6,4	1,19	57,3	6,7	1,42	60,5	4,8	0,87	49,6	8,1	1,39	71,4	8,3	1,57	85,6	1597	53,5	20	16	16	66	6	
6.2.30.4	8,4	1,57	51,0	8,5	1,81	50,2	6,5	1,17	80,6	10,4	1,78	59,8	10,6	1,99	71,3	1858	46,5	30	22	22	82	8	
6.2.35.4	11,8	2,20	53,3	11,9	2,54	52,5	7,8	1,41	58,5	14,5	2,48	62,2	14,9	2,79	74,4	2908	56,3	34	28	28	92	8	
6.2.40.4	21,0	3,90	65,5	20,3	4,34	87,3	13,3	2,41	72,7	24,5	4,20	70,2	25,0	4,70	83,5	4697	57,1	61	35	35	123	14	
6.2.45.4	40,2	7,47	98,9	36,8	7,86	82,5	21,9	3,96	78,4	45,2	7,76	99,3	45,6	8,55	92,2	9276	61,0	95	42	42	161	20	
6.3.30.4	15,2	2,82	99,9	13,5	2,89	79,5	9,5	1,72	86,1	16,7	2,87	96,7	16,6	3,11	66,0	2873	48,1	48	28	28	114	10	
6.3.35.4	18,5	3,45	85,9	17,1	3,65	72,6	10,9	1,97	98,7	21,0	3,60	87,3	20,9	3,92	64,7	4150	57,8	48	28	28	116	10	
6.3.40.4	33,0	6,14	78,2	30,6	6,54	86,8	19,2	3,48	99,8	37,3	6,40	79,0	38,0	7,14	93,3	7051	58,6	91	42	42	169	20	
6.3.45.4	61,4	11,42	90,6	56,0	11,95	75,1	30,8	5,58	82,6	68,9	11,81	90,4	69,1	12,96	77,7	14031	62,5	146	54	54	228	32	
6.4.30.4	18,7	3,48	67,0	17,5	3,74	88,7	11,5	2,09	78,5	21,2	3,64	68,1	21,7	4,06	80,4	3721	49,2	61	28	28	138	14	
6.4.35.4	23,3	4,32	67,8	22,2	4,75	88,1	13,1	2,38	89,3	26,8	4,60	70,9	27,4	5,14	84,2	5376	58,9	61	35	35	139	14	
6.4.40.4	41,3	7,67	82,9	37,9	8,09	86,7	21,9	3,96	78,3	46,3	7,93	82,7	47,1	8,84	97,6	8832	59,7	110	42	42	200	24	

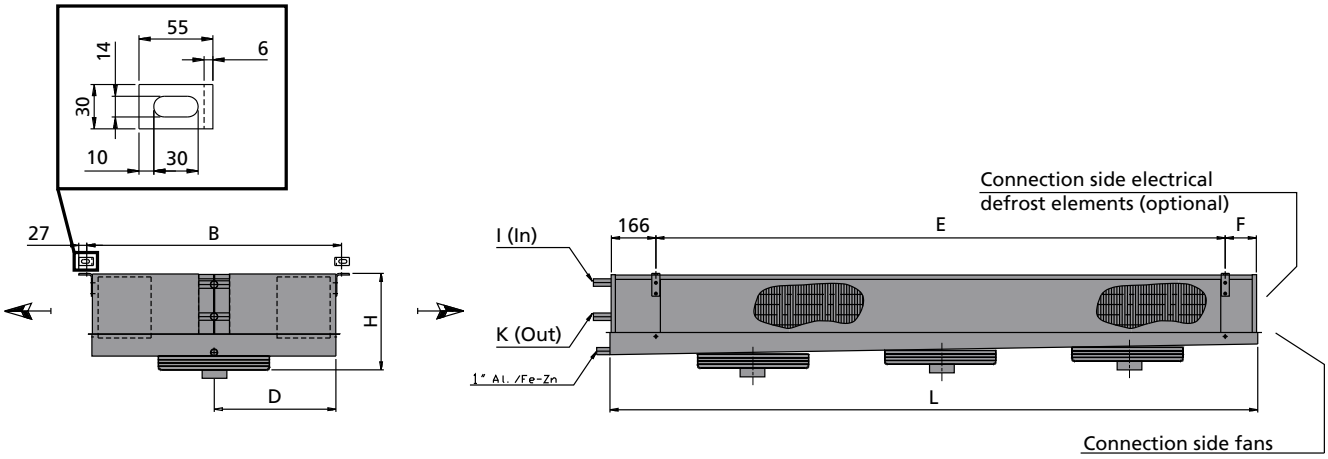
* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

 =7 mm

Type	1x230V-50Hz-4 pole (1500 min⁻¹ nom.)																		Connections				Air cooler details
	E-Glycol 28% -2 / 3 °C (In/out temp.)			Water 1 / 5 °C (In/out temp.)			P-Glycol 34% -2 / 3 °C (In/out temp.)			Pekasol 50% -2 / 3 °C (In/out temp.)			Freezium 24% -2 / 3 °C (In/out temp.)			Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	I	K	Weight	Internal volume	
	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop								
FC38D	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.30.7	3,3	0,61	31,6	3,7	0,80	60,8	3,2	0,58	67,5	4,6	0,78	72,0	4,7	0,88	86,3	1167	43,7	10	16	16	51	4	
6.1.35.7	4,3	0,81	20,4	5,1	1,08	17,0	4,2	0,76	43,3	6,6	1,12	49,1	6,8	1,27	59,7	1918	53,5	12	16	16	62	6	
6.2.30.7	5,6	1,05	17,9	7,5	1,59	88,5	5,7	1,04	71,5	8,7	1,50	44,2	9,0	1,69	53,3	2288	46,5	18	22	22	77	8	
6.2.35.7	10,8	2,02	84,9	10,1	2,15	72,7	7,3	1,33	97,9	12,4	2,13	87,5	12,2	2,29	52,5	3562	56,3	21	22	22	87	8	
6.2.40.7	17,7	3,29	70,4	16,9	3,61	96,8	12,1	2,20	95,7	20,4	3,50	73,8	20,9	3,92	87,6	5625	57,1	36	28	28	114	14	
6.2.45.7	31,3	5,82	81,0	29,2	6,23	90,9	19,4	3,52	88,1	35,5	6,09	82,5	36,3	6,80	97,8	10479	61,0	57	42	42	145	20	
6.3.30.7	12,4	2,31	70,4	11,5	2,45	59,6	8,4	1,53	76,5	14,1	2,43	72,1	14,4	2,70	85,1	3509	48,1	29	28	28	107	10	
6.3.35.7	14,5	2,70	56,1	14,4	3,08	90,0	9,6	1,75	87,5	17,3	2,96	61,8	17,7	3,32	73,6	5131	57,8	29	28	28	109	10	
6.3.40.7	27,3	5,07	72,7	25,4	5,42	83,4	16,9	3,06	88,0	30,9	5,30	73,8	31,5	5,91	87,3	8441	58,6	55	35	35	154	20	
6.3.45.7	48,5	9,02	82,9	44,4	9,47	82,5	27,4	4,96	87,5	54,3	9,32	82,5	55,4	10,38	97,4	15801	62,5	88	54	54	203	32	
6.4.30.7	16,6	3,08	82,6	14,9	3,19	67,0	10,3	1,87	70,2	18,5	3,16	81,4	18,8	3,52	95,8	4581	49,2	36	28	28	128	14	
6.4.35.7	19,9	3,70	74,5	18,7	4,00	99,5	11,7	2,12	79,7	22,6	3,88	76,1	23,1	4,33	90,0	6682	58,9	36	35	35	129	14	
6.4.40.7	34,2	6,36	74,4	31,6	6,74	80,1	20,1	3,64	91,0	39,1	6,70	97,5	39,3	7,37	88,5	10796	59,7	66	42	42	181	24	

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

Goedhart FC38Dp(G) - coolants



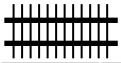
Fans mounted to the outside of the driptray!

Declarations

According	: Declaration of incorporation (SEP)
Group of coolant	: 2
PS	: 10 bar
TS	: +50 / -40 °C

Type	Dimensions						Electrical defrost at 3x400V-50Hz						Dimensions & Electrical defrost
							Coil block		Drip tray		Standard	Light	
	L	B	H	D	E	F							
FC38D	mm	mm	mm	mm	mm	mm	number	O [mm]	number	O [mm]	kW	kW**	
6.1.30.*	925	850	305	405	575	166	2x L=1600	132	2x L=1600	150	2,5		
6.1.35.*	1080	850	330	405	730	166	2x L=1900	132	2x L=1900	150	3,0		
6.2.30.*	1425	850	325	405	1075	166	2x L=2500	132	2x L=2500	150	4,1		
6.2.35.*	1570	850	350	405	1220	166	2x L=2800	132	2x L=2800	150	4,6		
6.2.40.*	1775	950	420	455	1425	166	4x L=3100	132	2x L=3400	150	8	6,1	
6.2.45.*	2025	1000	520	480	1675	166	4x L=3700	132	2x L=3700	150	9,3	7,0	
6.3.30.*	2025	850	325	405	1675	166	2x L=3700	132	2x L=3700	150	6,2		
6.3.35.*	2025	850	350	405	1675	166	2x L=3700	132	2x L=3700	150	6,2		
6.3.40.*	2475	950	420	455	2125	166	4x L=4600	132	2x L=4600	150	11,6	8,8	
6.3.45.*	2850	1000	520	480	2550	116	4x L=5500	132	2x L=5500	150	14,0	10,6	
6.4.30.*	2475	850	325	405	2125	166	2x L=4600	132	2x L=4600	150	7,8		
6.4.35.*	2475	850	350	455	2125	166	2x L=4600	132	2x L=4600	150	7,8		
6.4.40.*	2850	950	420	480	2550	116	4x L=5500	132	2x L=5500	150	14,0	10,6	

Goedhart FC38Lp(G) - coolants

 =4 mm

Type	1x230V-50Hz-4 pole (1500 min⁻¹ nom.)																		Connections				Air cooler details
	E-Glycol 28% -2 / 3 °C (In/out temp.)			Water 1 / 5 °C (In/out temp.)			P-Glycol 34% -2 / 3 °C (In/out temp.)			Pekasol 50% -2 / 3 °C (In/out temp.)			Freezium 24% -2 / 3 °C (In/out temp.)			Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	I	K	Weight	Internal volume	
	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop								
FC38L	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.25.4	1,9	0,36	11,1	2,1	0,45	13,7	1,8	0,33	23,7	2,0	0,34	6,6	2,6	0,48	18,5	510	40,8	9	16	16	15	2	
6.1.30.4	3,0	0,56	22,6	3,7	0,79	46,6	2,9	0,53	47,9	4,5	0,77	54,4	4,6	0,87	65,9	841	43,7	13	16	16	20	3	
6.1.40.4	9,9	1,84	74,4	9,6	2,06	69,1	7,2	1,3	98,5	11,8	2,02	82,3	12,1	2,26	98	2287	54,4	29	22	22	40	7	
6.2.25.4	5,4	1,00	95,0	4,9	1,04	78,2	3,7	0,67	63,1	6,0	1,03	94,8	5,7	1,07	32,4	1020	43,7	18	16	16	25	4	
6.2.30.4	8,4	1,57	90,9	7,7	1,64	75,4	5,3	0,97	53,7	9,5	1,63	91,1	9,2	1,73	44,9	1681	46,5	26	22	22	35	6	
6.2.40.4	21,4	3,97	88,6	19,6	4,18	73,9	12,8	2,32	91,2	24,1	4,13	89,1	24,1	4,51	70,3	4573	57,1	58	35	35	60	13	
6.3.30.4	11,8	2,19	50,8	11,7	2,49	90,1	7,5	1,35	53,8	13,9	2,39	55,8	14,3	2,68	66,4	2522	48,1	39	28	28	45	9	
6.3.40.4	32,7	6,08	91,3	29,5	6,29	74,3	17,6	3,18	83,6	36,4	6,24	89,9	79,6	6,85	79,6	6860	58,6	87	42	42	90	19	
6.4.30.4	16,8	3,12	69,6	15,6	3,34	99	9,9	1,8	87,1	18,9	3,25	70,1	19,3	3,62	82,7	3363	49,2	52	28	28	60	11	

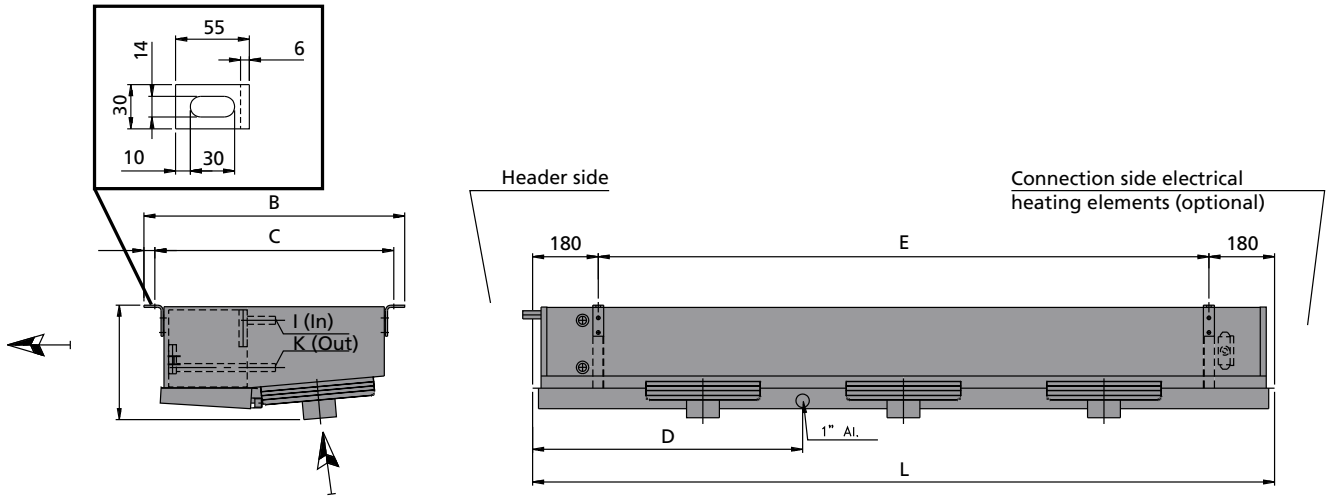
* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

 =7 mm

Type	1x230V-50Hz-4 pole (1500 min⁻¹ nom.)																		Connections				Air cooler details
	E-Glycol 28% -2 / 3 °C (In/out temp.)			Water 1 / 5 °C (In/out temp.)			P-Glycol 34% -2 / 3 °C (In/out temp.)			Pekasol 50% -2 / 3 °C (In/out temp.)			Freezium 24% -2 / 3 °C (In/out temp.)			Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	I	K	Weight	Internal volume	
	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop	Capacity	Volume flow	Pressure drop								
FC38L	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.25.7	1,7	0,31	9,8	2,1	0,44	87,6	1,8	0,33	93,6	1,7	0,3	5,7	2,0	0,38	12	612	40,8	5	16	16	15	2	
6.1.30.7	2,7	0,5	20,1	3,2	0,68	35,4	2,6	0,47	42,8	3,8	0,65	40,4	4,0	0,74	49,8	1061	43,7	8	16	16	20	3	
6.1.40.7	6,1	1,14	21,5	7,9	1,69	48,7	6,3	1,13	85,9	9,6	1,64	57,3	9,9	1,85	69	2764	54,4	17	22	22	30	7	
6.2.25.7	4,3	0,79	63,7	4,1	0,88	58,1	3,2	0,59	55,6	5,1	0,87	69,9	5,2	97	83	1225	43,7	11	16	16	20	4	
6.2.30.7	6,9	1,29	64,1	6,6	1,41	57,8	4,8	0,87	48,2	8,1	1,39	69,3	8,3	1,56	82,3	2122	46,5	16	22	22	30	6	
6.2.40.7	16,7	3,1	57,4	16,3	3,49	82,5	11,2	2,04	80,3	19,7	3,37	62,5	20,1	3,78	74,4	5527	57,1	35	28	28	55	13	
6.3.30.7	11,1	2,06	84,7	10,0	2,14	69,3	7,2	1,3	92	12,4	2,13	84	12,6	2,37	99	3184	48,1	23	28	28	40	9	
6.3.40.7	27,2	5,07	88,8	24,5	5,23	71,8	15,6	2,83	74,2	30,3	5,19	87,2	30,4	5,7	75	8291	58,6	52	35	35	80	19	
6.4.30.7	15,2	2,82	96,3	13,5	2,88	76,1	9,0	1,63	78,5	16,7	2,86	92,8	16,6	3,11	63,4	4245	49,2	31	28	28	55	11	

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

Goedhart FC38Lp(G) - coolants

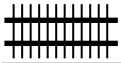


Declarations

According	: Declaration of incorporation (SEP)
Group of coolant	: 2
PS	: 10 bar
TS	: +50 / -40 °C

Type	Dimensions					Electrical defrost at 3x400V-50Hz				Standard
	L	B	H	E	D1	Coil block		Drip tray		
FC38L	mm	mm	mm	mm	mm	number	O [mm]	number	O [mm]	kW
6.1.25.*	890	705	280	530	245	2x L=1300	132	1x L=1300	175	1,5
6.1.30.*	990	705	315	630	295	2x L=1600	132	1x L=1600	175	1,9
6.1.40.*	1190	865	465	830	295	3x L=1900	132	1x L=2200	175	3,2
6.2.25.*	1390	705	280	1030	695	2x L=2500	132	1x L=2500	175	3,1
6.2.30.*	1590	705	315	1230	795	2x L=2800	132	1x L=2800	175	3,5
6.2.40.*	1990	865	465	1630	995	3x L=3700	132	1x L=3700	175	6,2
6.3.30.*	2190	705	315	1830	795	2x L=4000	132	1x L=4000	175	5,0
6.3.40.*	2790	865	465	2430	995	3x L=5200	132	1x L=5200	175	8,8
6.4.30.*	2790	705	315	2430	1395	2x L=5200	132	1x L=5200	175	6,6

Goedhart FC38Sp(dx) - R404A

 =4 mm

Type	Fan diameter	1x230V-50Hz-4 pole (1500 min⁻¹ nom.) SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	SC3 DT1 = 7K Air on =-18°C -25 / -18	Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	Connections I	Connections K	Weight	Internal volume
FC38S	mm	kW	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³
4.1.25.4	1x250	1,8	1,2		632	40,8	7	12	12	26	2
4.1.30.4	1x300	3,4	2,3		1124	43,7	11	12	12	34	3
6.1.30.4	1x300	3,6	2,4		980	43,7	16	12	22	39	4
6.1.35.4	1x350	6,5	4,5		1794	53,5	25	12	22	51	6
6.1.40.4	1x400	9,2	6,3		2531	54,4	34	12	22	63	8
6.1.45.4	1x450	14,5	9,9		4565	58,3	45	12	22	75	10
4.2.30.4	2x300	6,7	4,6		2241	46,5	22	12	22	50	5
6.2.30.4	2x300	7,7	5,3		1952	46,5	32	12	22	61	7
6.2.35.4	2x350	13,0	8,9		3578	56,3	50	12	22	82	11
6.2.40.4	2x400	18,6	12,6		5051	57,1	68	16	28	103	15
6.2.45.4	2x450	29,8	19,9		9115	61,0	90	16	28	122	19
6.2.50.4	2x500	37,3	24,9		11131	62,3	112	16	35	204	24
6.3.30.4	3x300	11,4	7,9		2923	48,1	49	12	22	81	11
6.3.35.4	3x350	19,8	13,4		5363	57,8	75	16	28	112	16
6.3.40.4	3x400	27,2	18,1		7570	58,6	102	16	35	142	22
6.3.45.4	3x450	45,2	30,2		13665	62,5	134	16	35	174	28
6.3.50.4	3x500	55,8	37,2		16686	63,8	168	22	42	291	35
6.4.30.4	4x300	15,4	10,4		3895	49,2	65	16	28	104	14
6.4.35.4	4x350	26,9	18,1		7148	58,9	99	16	35	143	21
6.4.40.4	4x400	37,7	25,3		10089	59,7	136	16	35	183	29
6.4.45.4	4x450	60,7	40,5		18214	63,5	179	16	42	222	38
6.4.50.4	4x500	75,5	50,0		22242	64,7	224	22	42	376	47
6.5.45.4	5x450	76,9	50,9		22764	64,2	223	16	42	267	47
6.6.45.4	6x450	91,7	61,2		27314	64,7	268	22	42	322	56

Air cooler details

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

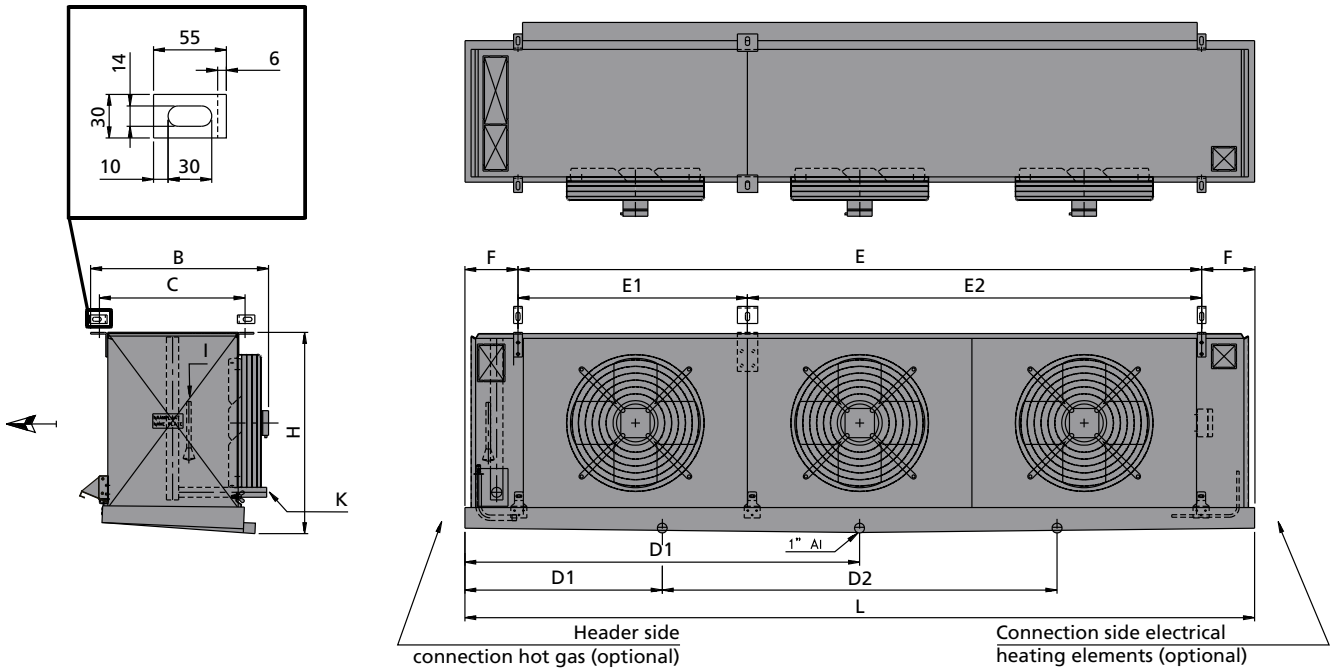
 =7 mm

Type	Fan diameter	1x230V-50Hz-4 pole (1500 min⁻¹ nom.) SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	SC3 DT1 = 7K Air on =-18°C -25 / -18	Air volume	LpA @ 3 m (+/- 2 dB(A))*	Surface	Connections I	Connections K	Weight	Internal volume
FC38S	mm	kW	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³
4.1.25.7	1x250	1,3	0,8	0,6	720	40,8	4	12	12	25	2
4.1.30.7	1x300	2,7	1,8	1,3	1309	43,7	7	12	12	32	3
6.1.30.7	1x300	3,2	2,2	1,5	1194	43,7	10	12	12	36	4
6.1.35.7	1x350	5,6	3,8	2,7	2103	53,5	15	12	22	46	6
6.1.40.7	1x400	7,8	5,2	3,8	2964	54,4	21	12	22	57	8
6.1.45.7	1x450	12,0	8,1	5,8	5217	58,3	27	12	22	67	10
4.2.30.7	2x300	5,3	3,6	2,6	2612	46,5	13	12	22	47	5
6.2.30.7	2x300	6,6	4,4	3,3	2381	46,5	19	12	22	56	7
6.2.35.7	2x350	11,1	7,5	5,4	4199	56,3	30	12	22	74	11
6.2.40.7	2x400	15,5	10,4	7,6	5918	57,1	41	16	22	92	15
6.2.45.7	2x450	24,2	16,1	11,6	10423	61,0	54	16	28	109	19
6.2.50.7	2x500	30,0	19,9	14,4	12823	62,3	67	16	28	186	24
6.3.30.7	3x300	10,0	6,8	4,9	3568	48,1	29	12	22	74	11
6.3.35.7	3x350	16,8	11,3	8,1	6295	57,8	45	16	22	100	16
6.3.40.7	3x400	23,1	15,4	10,8	8873	58,6	61	16	28	126	22
6.3.45.7	3x450	36,6	24,1	17,4	15628	62,5	80	16	35	152	28
6.3.50.7	3x500	45,4	29,9	21,5	19226	63,8	101	16	35	263	35
6.4.30.7	4x300	13,4	9,1	6,5	4754	49,2	39	12	22	93	14
6.4.35.7	4x350	22,5	15,1	10,9	8389	58,9	60	16	28	127	21
6.4.40.7	4x400	31,3	20,9	15,2	11828	59,7	82	16	35	161	29
6.4.45.7	4x450	49,1	32,3	23,1	20834	63,5	107	16	35	193	38
6.4.50.7	4x500	60,8	40,0	28,7	25630	64,7	134	16	42	339	47
6.5.45.7	5x450	60,1	39,8	28,8	26040	64,2	134	16	42	229	47
6.6.45.7	6x450	73,9	48,6	34,7	31246	64,7	161	16	42	279	56

Air cooler details

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

Goedhart FC38Sp(dx) - R404A



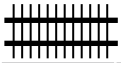
Declarations

Connection ≤ 35 mm	: Declaration of incorporation (SEP)
Connection 42mm and 54 mm	: module A
Group of fluid	: 2
PS	: 28 bar
TS	: +55 / -40 °C

Type	Dimensions										Electrical defrost at 3x400V-50Hz					
	L	B	H	C	E	E1	E2	F	D1	D2	Coil block		Drip tray		Standard	Light
FC38S	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	number	O [mm]	number	O [mm]	kW	kW**
4.1.25.*	690	510	395	400	406			142	345		2x L=1000	66	1x L=1600	200	1,4	
4.1.30.*	765	510	470	400	481			142	383		2x L=1300	66	1x L=1600	200	1,6	
6.1.30.*	765	510	470	400	481			142	383		2x L=1300	66	1x L=1600	200	1,6	
6.1.35.*	970	640	550	500	606			182	485		3x L=1600	132	1x L=2200	300	2,8	
6.1.40.*	1070	640	625	500	706			182	535		3x L=1900	132	1x L=2500	300	3,3	
6.1.45.*	1170	640	700	500	806			182	585		5x L=1900	132	1x L=2500	300	4,8	3,7
4.2.30.*	1210	510	470	400	926			142	605		2x L=2200	66	1x L=2500	200	2,8	
6.2.30.*	1210	510	470	400	926			142	605		2x L=2200	66	1x L=2500	200	2,8	
6.2.35.*	1540	640	550	500	1176			182	770		3x L=2800	132	1x L=3100	300	4,8	
6.2.40.*	1740	640	625	500	1376			182	870		3x L=3100	132	1x L=3700	300	5,4	
6.2.45.*	1940	640	700	500	1576			182	970		5x L=3700	132	1x L=4000	300	9,4	7,1
6.2.50.*	2040	830	850	600	1576			232	1020		5x L=3700	132	1x L=4300	400	9,6	7,2
6.3.30.*	1655	510	470	400	1371			142	828		2x L=3100	66	1x L=3700	200	4,1	
6.3.35.*	2110	640	550	500	1746			182	1055		3x L=4000	132	1x L=4600	300	6,1	
6.3.40.*	2410	640	625	500	2046			182	1205		3x L=4600	132	1x L=5200	300	8,0	
6.3.45.*	2710	640	700	500	2346			182	1355		5x L=5200	132	1x L=5800	300	13,5	10,2
6.3.50.*	2810	830	850	600	2346			232	1405		5x L=5200	132	2x L=5800	400	13,5	10,2
6.4.30.*	2100	510	470	400	1816			142	1050		2x L=4000	66	1x L=4600	200	5,3	
6.4.35.*	2680	640	550	500	2316			182	1340		3x L=5200	132	1x L=5800	300	9,1	
6.4.40.*	3080	640	625	500	2716			182	770	1540	3x L=5800	132	1x L=6700	300	10,3	
6.4.45.*	3480	640	700	500		1558	1558	182	870	1740	5x L=6700	132	1x L=7300	300	17,6	13,4
6.4.50.*	3580	830	850	600		1558	1558	232	895	1790	5x L=6700	132	1x L=7600	400	17,8	13,5
6.5.45.*	4250	640	700	500		1558	2328	182	1063	2125	10x L=4300	-	2x L=4600	-	22,0	16,6
6.6.45.*	5020	640	700	500		2328	2328	182	1255	2510	10x L=4900	-	2x L=5200	-	25,1	18,9

Dimensions & Electrical defrost

Goedhart FC38Dp(dx) - R404A

 =4 mm

Type	Fan diameter	1x230V-50Hz-4 pole				1x230V-50Hz-6 pole				Surface	Connections		Weight	Internal volume	Air cooler details
		SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*	SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*		I	K			
FC38D	mm	kW	kW	m³/h	dB(A)	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.30.4	1x300	3,4	2,2	954	43,7					16	12	12	54	4	
6.1.35.4	1x350	5,7	3,9	1597	53,5					20	12	22	66	6	
6.2.30.4	2x300	6,4	4,2	1858	46,5					30	12	22	82	8	
6.2.35.4	2x350	10	6,7	2908	56,3					34	12	22	92	8	
6.2.40.4	2x400	16,9	11,4	4697	57,1	13,2	9,0	3326	49,1	61	16	28	123	14	
6.2.45.4	2x450	30,2	20,2	9276	61,0	22,9	15,6	5919	49,5	95	16	35	161	20	
6.3.30.4	3x300	11,2	7,7	2873	48,1					48	12	22	114	10	
6.3.35.4	3x350	14,2	9,5	4150	57,8					48	12	22	116	10	
6.3.40.4	3x400	23,6	15,4	7051	58,6	20,1	13,7	4993	50,6	91	16	35	169	20	
6.3.45.4	3x450	47,3	31,3	14031	62,5	35,1	23,7	8964	51,0	146	16	35	228	32	
6.4.30.4	4x300	14,4	9,8	3721	49,2					61	16	28	138	14	
6.4.35.4	4x350	18,7	12,5	5376	58,9					61	16	28	139	14	
6.4.40.4	4x400	31,3	20,9	8832	59,7	24,1	16,1	6262	51,7	110	16	35	200	24	

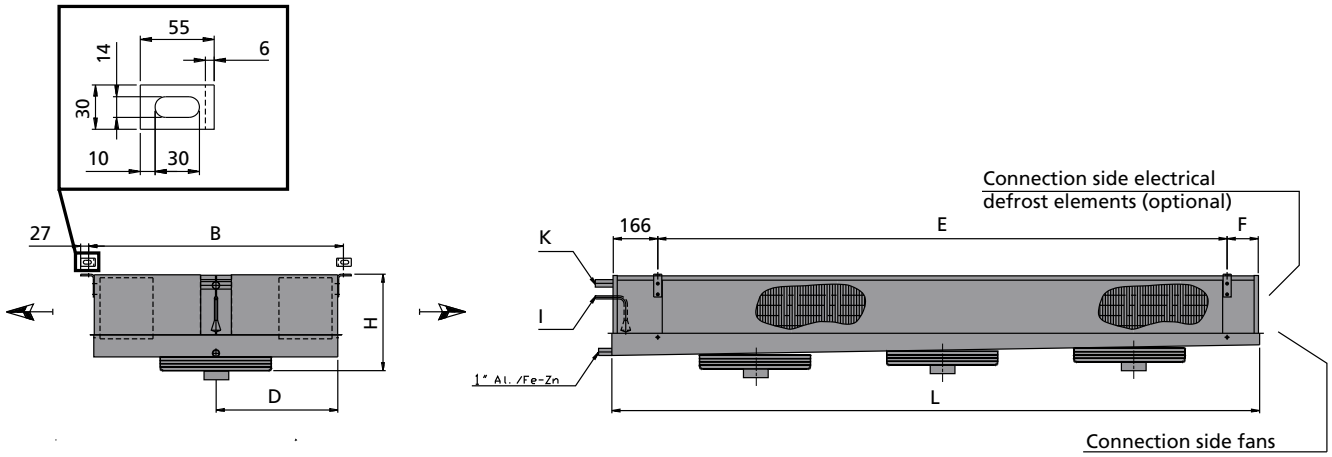
* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

 =7 mm

Type	Fan diameter	1x230V-50Hz-4 pole				1x230V-50Hz-6 pole				Surface	Connections		Weight	Internal volume	Air cooler details
		SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*	SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*		I	K			
FC38D	mm	kW	kW	m³/h	dB(A)	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.30.7	1x300	2,7	1,7	1167	43,7					10	12	12	51	4	
6.1.35.7	1x350	4,7	3,1	1918	53,5					12	12	22	62	6	
6.2.30.7	2x300	5,1	4,2	2288	46,5					18	12	22	77	8	
6.2.35.7	2x350	8,1	5,2	3562	56,3					21	12	22	87	8	
6.2.40.7	2x400	13,9	9,2	5625	57,1	11,4	7,8	3976	49,1	36	12	22	114	14	
6.2.45.7	2x450	24,6	16,4	10479	61,0	19,0	12,9	6804	49,5	57	16	28	145	20	
6.3.30.7	3x300	9,7	6,6	3509	48,1					29	12	22	107	10	
6.3.35.7	3x350	12,1	8,1	5131	57,8					29	12	22	109	10	
6.3.40.7	3x400	21,3	14,2	8441	58,6	17,3	11,7	5967	50,6	55	16	28	154	20	
6.3.45.7	3x450	37,6	24,9	15801	62,5	29,1	19,6	10266	51,0	88	16	35	203	32	
6.4.30.7	4x300	12,4	8,4	4581	49,2					36	12	22	128	14	
6.4.35.7	4x350	15,5	10,3	6682	58,9					36	16	22	129	14	
6.4.40.7	4x400	25,4	16,7	10796	59,7	21,8	14,7	7630	51,7	66	16	28	181	24	

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

Goedhart FC38Dp(dx) - R404A



Fans mounted to the outside of the driptray!

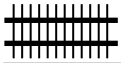
Declarations

Connection ≤ 35 mm	: Declaration of incorporation (SEP)
Connection 42mm and 54 mm	: module A
Group of fluid	: 2
PS	: 28 bar
TS	: +55 / -40 °C

Type	Dimensions						Electrical defrost at 3x400V-50Hz					
	L	B	H	D	E	F	Coil block		Drip tray		Standard	Light
FC38D	mm	mm	mm	mm	mm	mm	number	O [mm]	number	O [mm]	kW	kW**
6.1.30.*	925	850	305	405	575	166	2x L=1600	132	2x L=1600	150	2,5	
6.1.35.*	1080	850	330	405	730	166	2x L=1900	132	2x L=1900	150	3,0	
6.2.30.*	1425	850	325	405	1075	166	2x L=2500	132	2x L=2500	150	4,1	
6.2.35.*	1570	850	350	405	1220	166	2x L=2800	132	2x L=2800	150	4,6	
6.2.40.*	1775	950	420	455	1425	166	4x L=3100	132	2x L=3400	150	8	6,1
6.2.45.*	2025	1000	520	480	1675	166	4x L=3700	132	2x L=3700	150	9,3	7,0
6.3.30.*	2025	850	325	405	1675	166	2x L=3700	132	2x L=3700	150	6,2	
6.3.35.*	2025	850	350	405	1675	166	2x L=3700	132	2x L=3700	150	6,2	
6.3.40.*	2475	950	420	455	2125	166	4x L=4600	132	2x L=4600	150	11,6	8,8
6.3.45.*	2850	1000	520	480	2550	116	4x L=5500	132	2x L=5500	150	14,0	10,6
6.4.30.*	2475	850	325	405	2125	166	2x L=4600	132	2x L=4600	150	7,8	
6.4.35.*	2475	850	350	455	2125	166	2x L=4600	132	2x L=4600	150	7,8	
6.4.40.*	2850	950	420	480	2550	116	4x L=5500	132	2x L=5500	150	14,0	10,6

Dimensions & Electrical defrost

Goedhart FC38Lp(dx) - R404A

 =4 mm

Type	Fan diameter	1x230V-50Hz-4 pole (1500 min⁻¹ nom.)					Surface	Connections		Weight	Internal volume	Air cooler details
		SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	SC3 DT1 = 7K Air on =-18°C -25 / -18	Air volume	LpA @ 3 m (+/- 2 dB(A))*		I	K			
FC38L	mm	kW	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.25.4	1x250	2,0	1,3		510	40,8	9	12	12	15	2	
6.1.30.4	1x300	3,1	2,2		841	43,7	13	12	12	20	3	
6.1.40.4	1x400	8,2	5,6		2287	54,4	29	12	22	40	7	
6.2.25.4	2x250	4,0	2,7		1020	43,7	18	12	22	25	4	
6.2.30.4	2x300	6,3	4,3		1681	46,5	26	12	22	35	6	
6.2.40.4	2x400	16,6	11,1		4573	57,1	58	12	28	60	13	
6.3.30.4	3x300	9,7	6,5		2522	48,1	39	12	22	45	9	
6.3.40.4	3x400	24,5	16,3		6860	58,6	87	16	28	90	19	
6.4.30.4	4x300	12,9	8,7		3363	49,2	52	16	22	60	11	

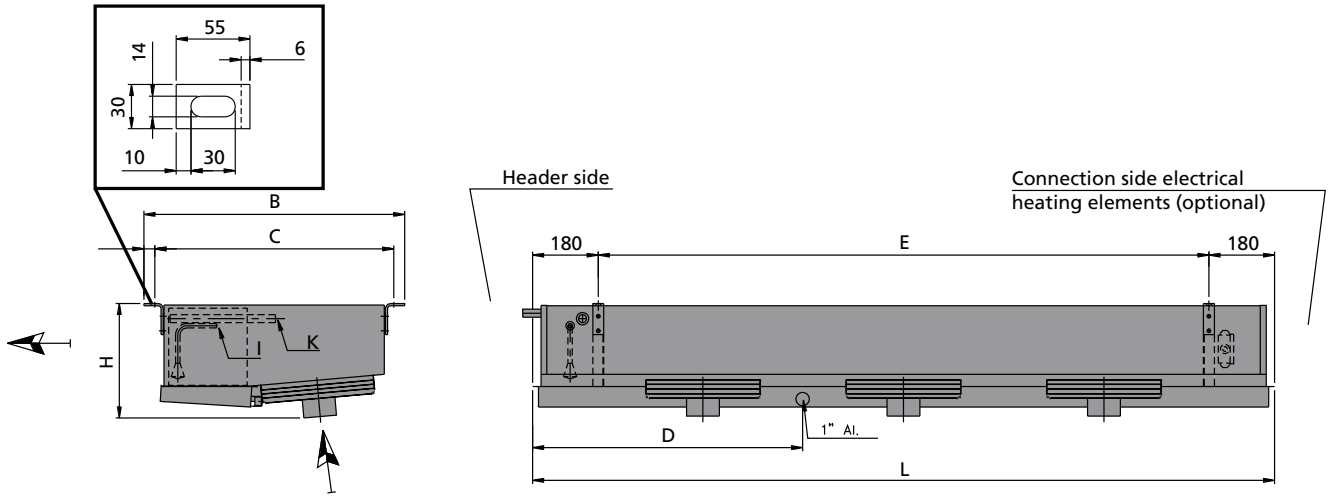
* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

 =7 mm

Type	Fan diameter	1x230V-50Hz-4 pole (1500 min⁻¹ nom.)					Surface	Connections		Weight	Internal volume	Air cooler details
		SC1 DT1 = 10K Air on =10°C 0 / +10	SC2 DT1 = 8K Air on =0°C -8 / 0	SC3 DT1 = 7K Air on =-18°C -25 / -18	Air volume	LpA @ 3 m (+/- 2 dB(A))*		I	K			
FC38L	mm	kW	kW	kW	m³/h	dB(A)	m²	mm	mm	kg	dm³	
6.1.25.7	1x250	1,6	1,1	0,8	612	40,8	5	12	12	15	2	
6.1.30.7	1x300	2,8	1,9	1,4	1061	43,7	8	12	12	20	3	
6.1.40.7	1x400	6,8	4,6	3,4	2764	54,4	17	12	22	30	7	
6.2.25.7	2x250	3,3	2,3	1,6	1225	43,7	11	12	12	20	4	
6.2.30.7	2x300	5,7	3,9	2,8	2122	46,5	16	12	22	30	6	
6.2.40.7	2x400	14,0	9,4	6,8	5527	57,1	35	12	22	55	13	
6.3.30.7	3x300	8,6	5,8	4,2	3184	48,1	23	12	22	40	9	
6.3.40.7	3x400	20,7	13,8	9,7	8291	58,6	52	16	28	80	19	
6.4.30.7	4x300	11,6	7,7	5,5	4245	49,2	31	12	22	55	11	

* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

Goedhart FC38Lp(dx) - R404A



Declarations

Connection ≤ 35 mm	: Declaration of incorporation (SEP)
Connection 42mm and 54 mm	: module A
Group of fluid	: 2
PS	: 28 bar
TS	: +55 / -40 °C

Type	Dimensions					Electrical defrost at 3x400V-50Hz				Standard
						Coil block		Drip tray		
	L	B	H	E	D1					
FC38L	mm	mm	mm	mm	mm	number	O [mm]	number	O [mm]	kW
6.1.25.*	890	705	280	530	245	2x L=1300	132	1x L=1300	175	1,5
6.1.30.*	990	705	315	630	295	2x L=1600	132	1x L=1600	175	1,9
6.1.40.*	1190	865	465	830	295	3x L=1900	132	1x L=2200	175	3,2
6.2.25.*	1390	705	280	1030	695	2x L=2500	132	1x L=2500	175	3,1
6.2.30.*	1590	705	315	1230	795	2x L=2800	132	1x L=2800	175	3,5
6.2.40.*	1990	865	465	1630	995	3x L=3700	132	1x L=3700	175	6,2
6.3.30.*	2190	705	315	1830	795	2x L=4000	132	1x L=4000	175	5,0
6.3.40.*	2790	865	465	2430	995	3x L=5200	132	1x L=5200	175	8,8
6.4.30.*	2790	705	315	2430	1395	2x L=5200	132	1x L=5200	175	6,6

Goedhart delivery programm

Goedhart catalogue air coolers



VCI



DVS/DRS/DZS



ZGB/ZGZ



PAC



FC38



ZFB/ZFZ

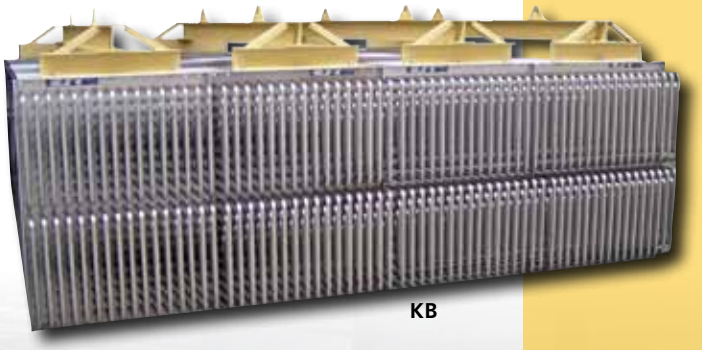
Goedhart engineered-to-order air coolers



PLK



LLK



KB

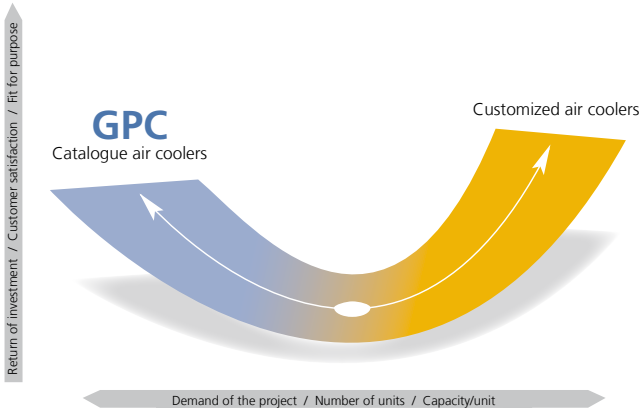


AU

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Best of both worlds



One question which always is in the mind of an industrial refrigeration engineer is the following:
Do I ask for standard or shall I go for tailor made?

There are good reasons for both choices. In some cases, the solution needed is beyond the boundaries of the standard program. In other occasions, tailor made can even offer a more economical solution. In again other situations standard would be the logical choice to go for.

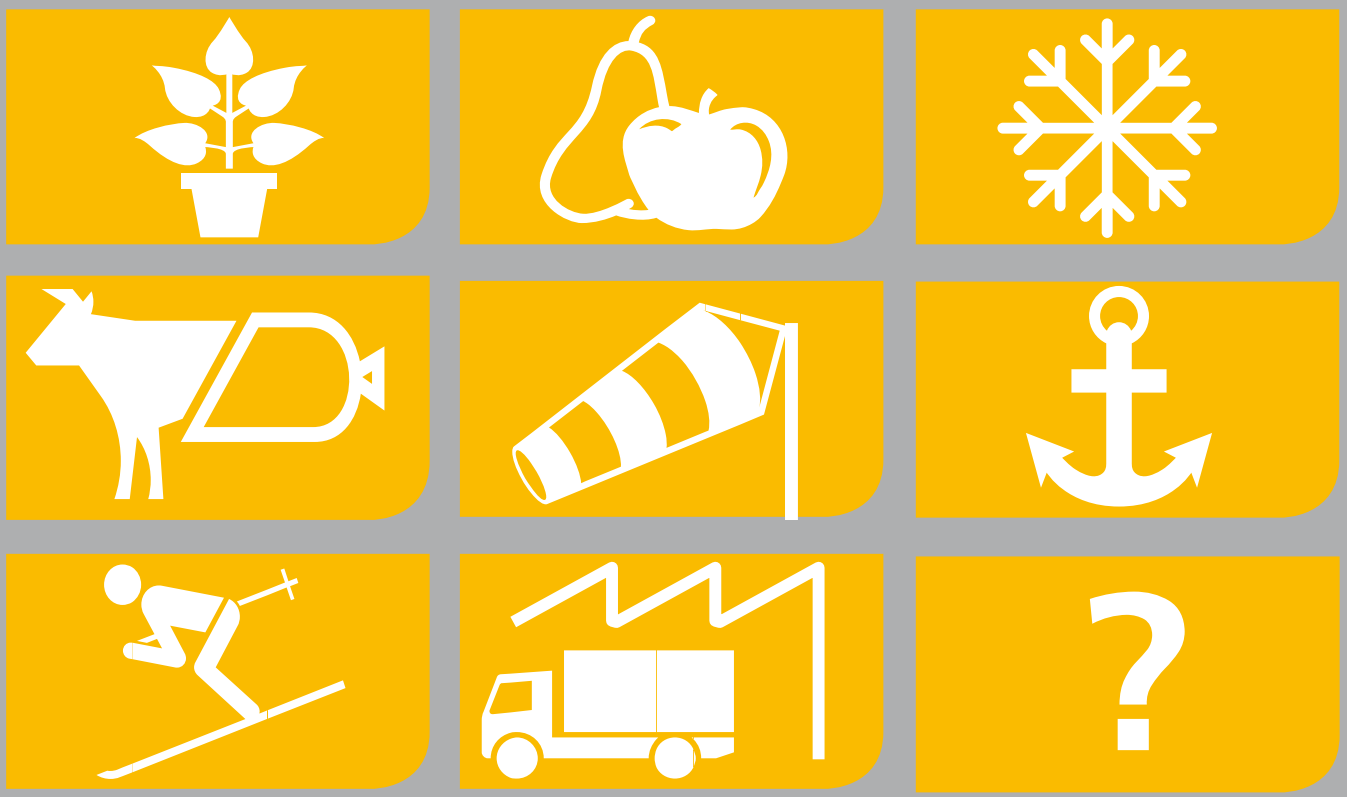
In any of the cases GEA Goedhart can offer you the right solution. With the standard selection software GPC finding the right heat exchanger is just a few mouse clicks away. On other cases the GEA Goedhart engineers are happy to help you out!

Goedhart GPC Program, **your selection software** for air coolers and air cooled condensers!

Goedhart FC38 air cooler selections are available in the Goedhart Product Catalogue or GPC.
On the tool section of **www.goedhart.nl** you will find the download button for the latest version of the GPC.

The GPC program is an easy to use tool for contractors, consultants and every other thinkable user and gives you access to many advantages such as:

- Multilingual
- The whole range of GEA Goedhart standard air coolers and air cooled condensers
- Pre-select buttons to application
- Selections including drawings and an extensive list of accessories
- Spare parts
- Accurate capacities: Under the GPC shell hides a sophisticated capacity calculation program which optimizes circuits to the design conditions as you work!



GEA Goedhart
air coolers
for every application

For Contractors and Original Equipment Manufacturers (OEM) related to the industrial refrigeration industry, GEA Goedhart B.V. offers an unlimited range of air coolers and air cooled condensers in several configurations.

Depending on the application, the optimum configuration will be selected in close cooperation with our customers.

Configurations
The following material combinations are available in various tube pitches and various fin spacing:

Tube material	Fin material
Copper (Cu)	Aluminium (Al)
Stainless steel (Stst)	Aluminium (Al)
Stainless steel (Stst)	Stainless steel (Stst)
Aluminium (Al)	Aluminium (Al)
Hot dipped galvanized steel (FeZn)	Hot dipped galvanized steel (FeZn)

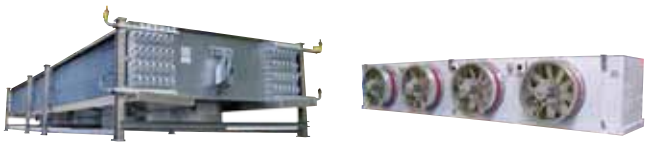
Options on aluminium fins
- Goldlack coated fins
- Seawater resistant aluminium fins (AlMg)

Applications

Cooling	Freezing
Cold stores / Distribution centres	Cold stores / Distribution centres
Food processing rooms	Tunnel / spiral freezers
Fruit storage	Slaughter houses
Banana ripening storage	Automotive testing rooms
Greenhouse conditioning	Ski domes

Pressure Equipment Directive (P.E.D.)
All aircoolers produced by Goedhart comply with the Pressure Equipment Directive 97/23/EC. PED certificates can be downloaded from www.goedhart.nl.







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GEA Heat Exchangers

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