

**Goedhart FC385**



**Goedhart FC38D**



**Goedhart FC38L**



## **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

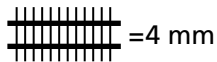
FC38S = Ceiling mounted air coolers	2	= Number of fans
FC38D = Dual discharge air coolers		
FC38L = Extra low air cooler	40	= Fan diameter in cm
i = internally enhanced tubes	7	= Fin spacing
p = plain tubes		
(dx) = R404A	230	= 1x230V Fan tension
(G) = coolant	400	= 3x400V Fan tension
6 = number of tubes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

### General features

#### Coil block

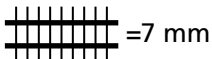
- Tube distance : 38x33 mm versprongen
- Tubes : 12mm o.d copper tube
- : I= internally enhanced tubes for refrigerants (dx)  
P= internally plain tubes for coolants(G) and refrigerants (dx)
- Fins : aluminium HT-fins
- Fin spacing : 4 mm : Suitable for applications with air temperatures above 0°C and 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 Schröder 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.

# Goedhart FC38Dp(dx) - R404A



Type	Fan diameter	1x230V-50Hz-4 pole					1x230V-50Hz-6 pole					Surface	Connections		Weight	Internal volume
		SC1	SC2				SC1	SC2					I	K		
FC38D	mm	DT1 = 10K Air on =10°C 0 / +10	DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*	DT1 = 10K Air on =10°C 0 / +10	DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*	m <sup>2</sup>	mm	mm	kg	dm <sup>3</sup>		
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		

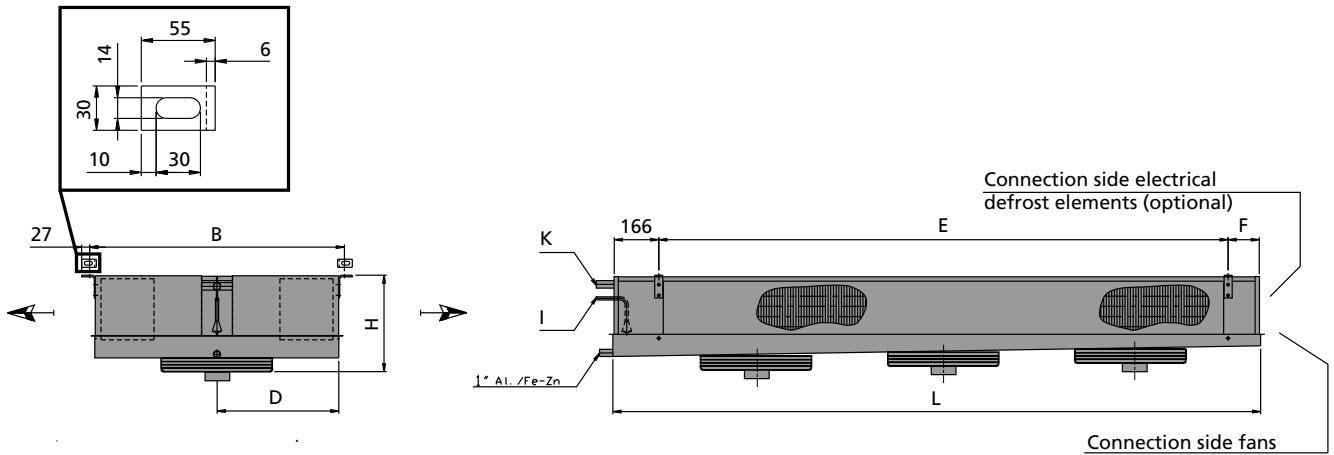
\* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)), free field conditions, according EN13487



Type	Fan diameter	1x230V-50Hz-4 pole					1x230V-50Hz-6 pole					Surface	Connections		Weight	Internal volume
		SC1	SC2				SC1	SC2					I	K		
FC38D	mm	DT1 = 10K Air on =10°C 0 / +10	DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*	DT1 = 10K Air on =10°C 0 / +10	DT1 = 8K Air on =0°C -8 / 0	Air volume	LpA @ 3 m (+/- 2 dB(A))*	m <sup>2</sup>	mm	mm	kg	dm <sup>3</sup>		
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  $\leq 35$  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	Light	Dimensions & Electrical defrost		
	L	B	H	D	E	F	Coil block		Drip tray					kW	kW**
							number	O [mm]	number	O [mm]					
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 delivery program

## Goedhart catalogue air coolers



VCI



DVS/DRS/DZS



ZGB/ZGZ



PAC



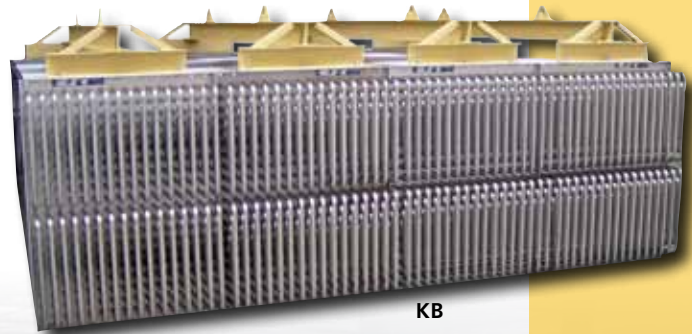
FC38



ZFB/ZFZ

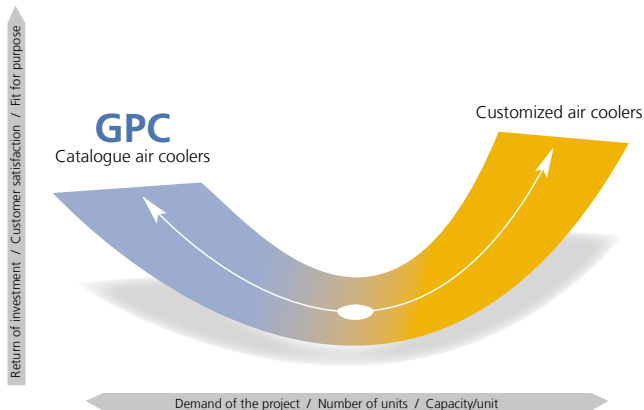
# Goedhart delivery programm

Goedhart engineered-to-order air coolers





## Best of both worlds



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

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.

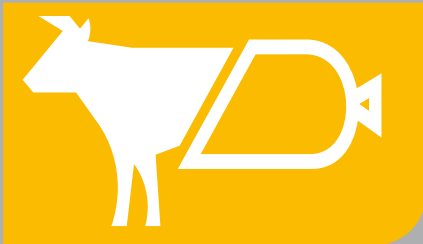
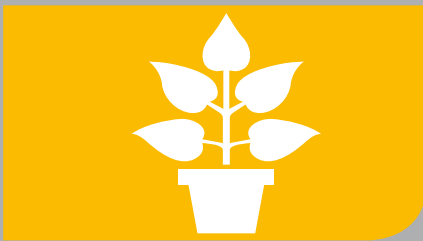
In any of the cases GEA Goedhart can offer you the right solution. With the standard selection software GPC finding the right heat exchanger is just a few mouse clicks away. On other cases the GEA Goedhart engineers are happy to help you out!

Goedhart FC38 air cooler selections are available in the Goedhart Product Catalogue or GPC.

On the tool section of [www.goedhart.nl](http://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!



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](http://www.goedhart.nl).

## GEA Goedhart air coolers for every application

