



For All Your Heat Transfer Solutions



E4-SERIES

EVAPORATOR AIR COOLER

STANDING FLOOR



About E4-Series

Greenhalgh evaporator is a high efficiency heat exchanger. Capacity design according to the most popular compressor sizes in this range. Fin and tube design for maximizing the sensible capacity. Fin spacing 8 mm for low temperature. Greenhalgh chooses only low specific energy consumption fans. Robust stainless steel electric heater with high isolation cable connections to meet UL-SA5102 and CSA-LR18489 standards and ensure the safety of the equipment.

Application Benefits/Features

High Efficiency Heat Exchanger

- Capacity design according to the most popular compressor sizes in this range.
- Fin and tube design for maximizing the sensible capacity.
- The Greenhalgh thermodynamic and aerodynamic designing software is long year tested and proved in Germany.

FAN

- Greenhalgh chooses only low specific energy consumption fans.
- Fan nozzle design for maximum air flow and air throw Our fans from the world's leading manufacturer are practically proved to be reliable in operation and long lasting.
- Motor : protection class IP 54 and Insulation class F.

Greenhalgh Defrost

- 4.2mm fin spacing for medium temperature and 8 mm for low temperature ensure a good cooling capacity during a 4 hours cycle under typical humid conditions.
- Capacity of the defrost heater is according to the thermodynamic calculation of the latent heat and 4 hours defrost cycle.
- Robust stainless steel electric heater with high isolation cable connections to meet UL-SA5102 and CSA-LR18489 standards and ensure the safety of the equipment.
- 100% has been leakage tested with metode immersed in water tank to make sure the product doesn't leak.
- Heater wired to electric terminal box suitable for wet condition (standard IP66) and low temperature (tested at -40°C).

We Facilitate You To Meet HACCP

- Durable material powder coated finish.
- Coil block made from robust fins to withstand the cleaning processes.
- Water drain tray design with slope towards the drainage to minimize the water in tray.
- Double drip tray for low temperature model.
- 100% leakage tested at 31 bar.

Options

- Customized fin spacing
- Coil for Glycol operations

Catalogue Rating Condition

Low Temperature (SC3)

- Air inlet temperature -18°C
- Evaporator temperature -25°C
- Superheat 4.55K
- Refrigerant liquid temperature 20°C
- Relative humidity 95%

Medium Temperature (SC2)

- Air inlet temperature 0°C
- Evaporator temperature -8°C
- Superheat 5.2K
- Refrigerant liquid temperature 30°C
- Relative humidity 85%

Medium Temperature

RH		50 %	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%
Conversion Factors		0.857	0.86	0.859	0.883	0.915	0.945	0.974	1	1.025	1.049	1.084
°C		-25°C	-20°C	-15°C	-10°C	-5°C	0°C	2°C	5°C	10°C		
$\Delta t(K)$	10	0.599	0.729	0.861	0.989	1.113	1.233	1.285	1.342	1.402		
	9	0.585	0.702	0.816	0.923	1.024	1.120	1.162	1.202	1.239		
	8	0.562	0.663	0.756	0.844	0.916	1.000	1.019	1.040	1.079		
	7	0.525	0.610	0.684	0.746	0.807	0.860	0.868	0.873	0.890		
	6	0.475	0.536	0.586	0.617	0.640	0.622	0.670	0.676	0.685		
	5	0.383	0.412	0.429	0.445	0.455	0.459	0.462	0.463	0.464		

Low Temperature

RH		50 %	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%
Conversion Factors		0.955	0.96	0.957	0.959	0.962	0.969	0.978	0.986	0.993	1	1.012
°C		-35°C	-30°C	-25°C	-20°C	-18°C	-15°C	-12°C	-5°C	0°C		
$\Delta t(K)$	10	0.764	0.958	1.152	1.334	1.403	1.501	1.584	1.782	1.886		
	9	0.750	0.924	1.091	1.241	1.295	1.372	1.435	1.588	1.677		
	8	0.723	0.872	1.007	1.122	1.163	1.219	1.262	1.370	1.426		
	7	0.676	0.795	0.898	0.974	1.000	1.037	1.060	1.122	1.164		
	6	0.601	0.684	0.746	0.788	0.800	0.815	0.817	0.845	0.886		
	5	0.472	0.490	0.498	0.520	0.522	0.526	0.542	0.595	0.641		

**Floor standing
as Genuine
Air Blast Freezer**





E4-Series

Floor Standing

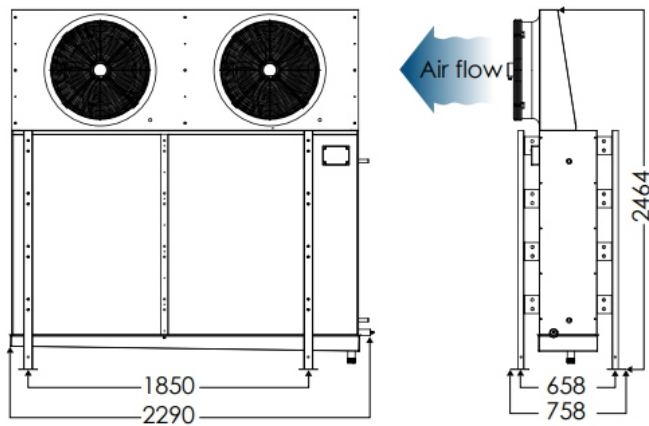
Low Temperature evaporators
with Fin Spacing 8 mm

Data Sheet

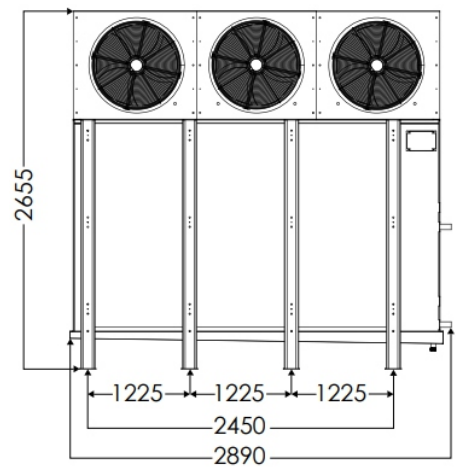
Type	E4-347-F 2X630	E4-408-F 2X630	E4-531-F 3X630	E4-623-F 3X630	E4-704-F 4X630	E4-821-F 4X630	E4-937-F 3X800	E4-1054-F 3X800	E4-1285-F 4X800
Cooling Capacity									
R404a (kW)	34.7	40.8	53.1	62.3	70.4	82.1	93.7	105.4	128.5
Air Flow (m³)	26754	25957	40427	38985	54376	52304	73003	69381	85944
Air Throw (m)	28	27	28	27	28	28	28	28	28
External air pressure (Pa)	86	92	85	91	83	90	90	100	117
Fan 1Ph/230V/50Hz									
Quantity	2	2	3	3	4	4	3	3	4
Diameter (mm)	630	630	630	630	630	630	800	800	800
Amphere	10.20	10.20	15.30	15.30	20.40	20.40	12.30	12.30	16.40
Watt (W)	5500	5500	8250	8250	11000	11000	6300	6300	8400
Sound Level dB(A)1m	75	75	75	77	77	77	78	80	80
Heater 3Ph/380V/50Hz									
Coil (W)	12000	13000	14000	15000	16000	19800	20400	25500	27000
Drip Tray (W)	2400	2600	2800	3000	3200	4950	5100	5100	5400
Dimension									
Length (mm)	2290	2390	2890	2990	3390	3490	3800	3800	4300
Height (mm)	2464	2464	2655	2655	2845	2845	3381	3381	3381
Depth (mm)	758	758	758	758	758	758	830	830	830
A (mm)	1850	1950	2450	2550	2950	3050	3350	3350	3850
B (mm)	-	-	1225	1275	1475	1525	1675	1675	1675
C (mm)	658	658	658	658	658	658	730	730	730
Weight (kg)	280	310	410	455	680	740	820	910	1180
Connection									
Inlet (mm)	2x22.22	2x22.22	2x28.58	3x22.22	3x22.22	3x22.22	2x34.92	3x28.58	3x28.58
Outlet (mm)	2x53.98	2x53.98	2x53.98	3x53.98	3x53.98	3x53.98	2x63.5	3x63.5	3x63.5
Drain pipe (NW")	NPT1 1/2	NPT1 1/2	NPT1 1/2	NPT1 1/2	NPT 2 1/2	NPT 2 1/2	NPT 2 1/2	NPT 2 1/2	NPT 2 1/2

Dimensional Drawing

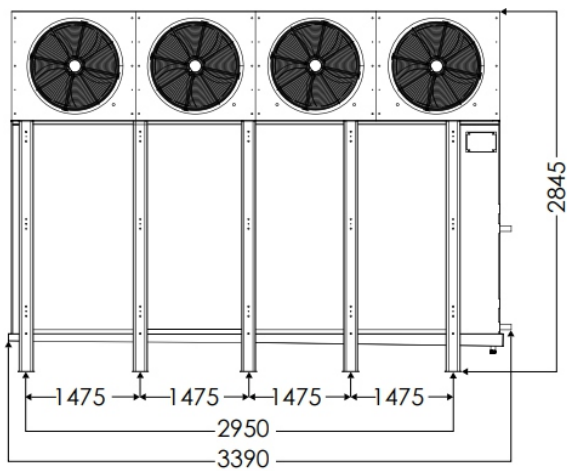
2 X 630 FAN



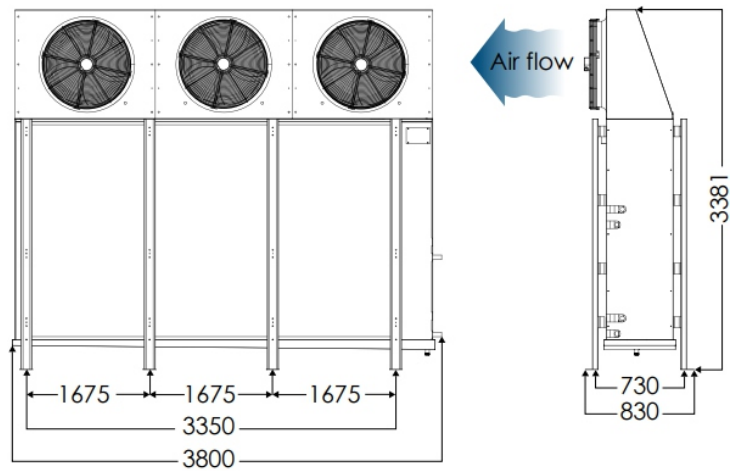
3 X 630 FAN



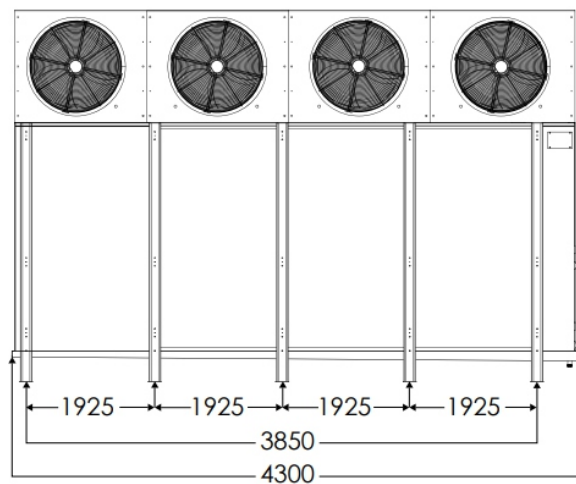
4 X 630 FAN



3 X 800 FAN



4 X 800 FAN



Distributor

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