

TAHVIEH ASEMAN

GENERAL CATALOGUE

EDITION 2024

HVAC PRODUCTION

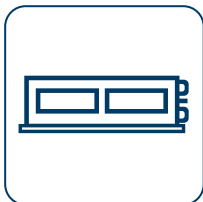


WWW.TAHVIEHASEMAN.COM

TAHVIEH ASEMAN

www.tahviahaseman.com

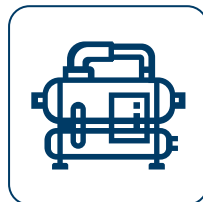
Manufacturer of HVAC Systems



FAN COIL
DUCTED FAN COIL



MINI CHILLER



WATER COOLED
CHILLER



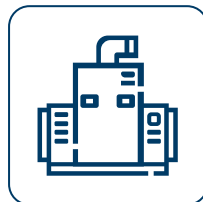
AIR COOLED
CHILLER



CONDENSER



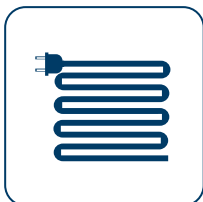
COIL



PACKAGED UNIT



AIR HANDLING
UNIT



ELECTRICAL
COIL



CONDENSING
UNIT



DUCTED SPLIT



A.C SPLIT

ABOUT US

TAHVIYEH ASEMAN has been operating in the HVAC market since 2007, previously operating as 'SANAT ANDISHE PISHGAM PART'. Our company's main objectives are to manufacture high quality and uniquely designed units based on the market demands, and to continue creating and sustaining long lasting relationships with our customers ensuring client satisfaction in respect of our product and services.

We continue to enhance and improve our products and services to meet the increasing demands of the marketplace driving efficiency and sustainability, meeting expectations to continually enhance and evolve in size, compatibility and functionality.

With our market leading and cutting-edge production and commercial capabilities, we are renowned for having bespoke design-builds, our attention to detail, and for providing an end-to-end concept design to final installation service. Our adherence to high quality standards is top class.

Our key products are listed as:

- Variety of Chillers with Scroll , Screw , Semi Hermetic Compressor
- Air handling units and rooftop packaged
- Fan Coil include High- and low-pressure Static
- Coils: Condenser , Evaporator , Water Coils
- Electrical Coils

DIRECTORY

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Ceiling Fan Coil

TAHVIEH ASEMAN's Fan coils are designed in 30, 50 and 100 Pascal models . All the fans are metal centrifugal and the capacity of the coils is specified according to the air volume in the tables of each model.

The filters are two layers of aluminum and the ability to move the air suction from the bottom to the back is possible in all models. The dimensions and technical specifications of each model are explained on the desired page.

MODEL	STATIC PRESSURE (Pa)	CAPACITY (CFM)
SLIM	30	200-1200
SILENT	30	200-1200
STANDARD	30	200-1200
STANDARD 4P	30	200-1000
DUCTED FAN COIL MEDIUM STATIC	50	600-2000
DUCTED FAN COIL MEDIUM STATIC 4P	50	400-1800
DUCTED FAN COIL HIGH STATIC	100	750-2000

Description of naming models

AT - SDFC - 0200

ASEMAN TAHVIEH

Air Flow Rate **200 - 2000** CFM

MODEL

SLFC : Slim Fan Coil

STFC : Silent Fan Coil

SDFC : Standard Fan Coil

MSDF : Medium Static Ducted Fan Coil

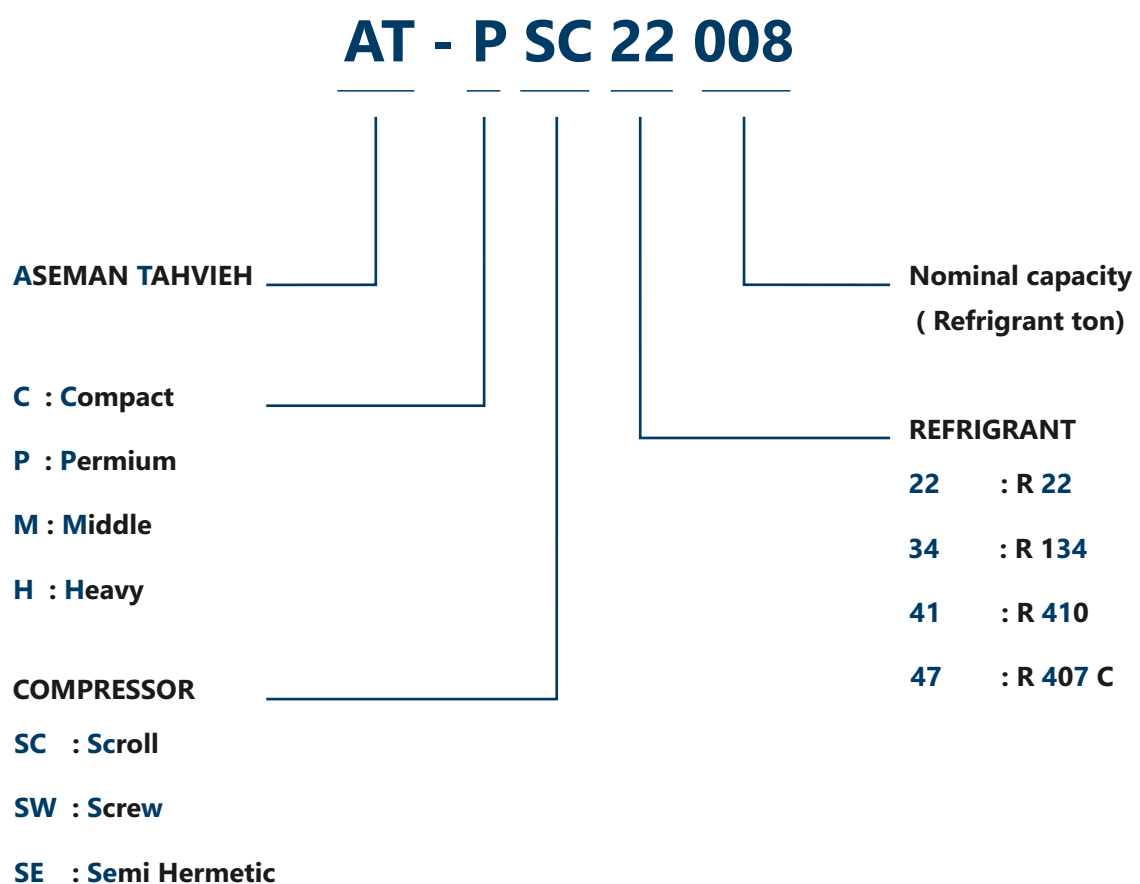
HSDF : High Static Ducted Fan Coil

CHILLER

TAHVIEH ASEMAN's air cooled Chillers are classified according to the type of gas and nominal and actual capacities. The nominal capacity of the chillers is at a standard temperature of 35 degrees Celsius , and the actual capacities in different Ambient temperature conditions are explained in the table at the bottom of each page. The categories of capacities and naming of chillers are explained below:

MODEL	REFRIGERANT	CAPACITY(REFRIGERANT TON)
MINI CHILLER		
COMPACT	R22-407C	4-8
PERMIUM	R22-407C	10-18
CHILLER		
MIDDLE	R22-407C	15-30
HEAVY SCROLL	R22-407C	40-200
HEAVY SCROLL	R134A	40-200
HEAVY SCROLL	R410A	40-240
HEAVY SCREW	R22-407C	60-560
HEAVY SCREW	R134A	60-560
HEAVY SEMI HERMETIC	R134A	30-140
HEAVY SEMI HERMETIC	R22-407C	20-160

Description of naming models





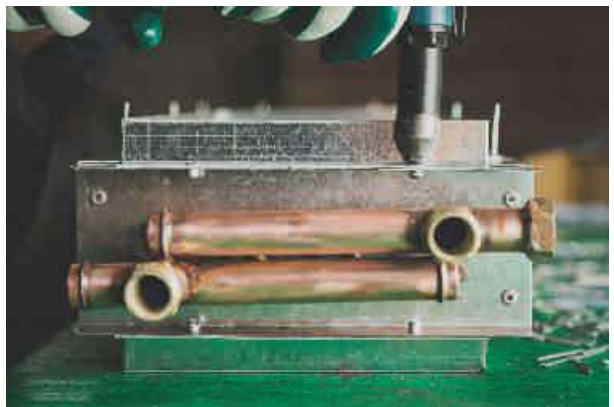
COIL & CONDENSER



FIN & TUBE

The most important part of an air conditioning system is related to the design and construction of its coils. TAHVIEH ASEMAN Air Conditioning Company has the ability to produce any kind of hot water coils , condenser coils , DX coils in different dimensions with the most up - to - date equipment of the coils production line.

Condenser coils are used in air-cooled chillers and cold and hot water coils in industrial and hospital air conditioners like Air Handling Units are used.



CONDENSER

Aluminum fins , which are the main part of coils , are mainly produced with a thickness of 130 to 150 microns by a fin press machine. According to the design for the condenser coil , the number of tubes includes the width of the fin and the number of rows includes the depth of the fin. It is designed for condensers based on the density of fins or the number of fins per inch (FPI).

These fins are either pure aluminum or blue or gold coated in production and design.

TAHVIEH ASEMAN's fin press machine has the possibility of producing condensers for chillers as well as customized in the dimensions required by the customer.

The condensers produced in the production line are thoroughly washed with degreasing solutions before the welding stage , and after drying and welding , the connections , Condensers are tested with nitrogen gas at a pressure of 1.5 times the working pressure.



Row: 3, 4 row of copper tube in Depth
Pipe : Width of coil
FPI : Fin Per Inch



Aluminum Thickness : 130 -150 Micron
Type of Fin : Aluminum ,Coated (Blue Fin)
Edge : Wave or Simple



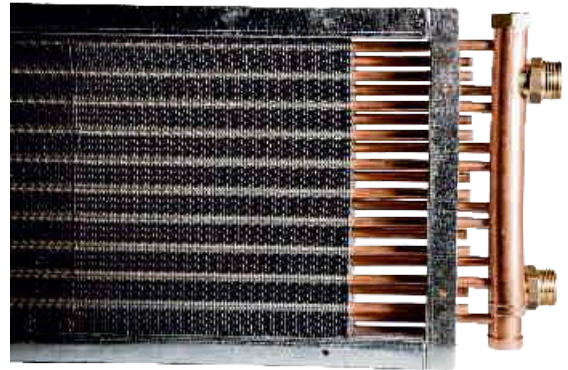
The possibility of producing condensers in a bent shapes with 4 Row in various modes L, C, G Type. This model can be used in devices that have limited space.



Design and production of customized condenser according to air conditions and refrigerant gas for chillers and condensing units of cold storage.

HOT WATER COIL DX COIL

All water coils are first determined by specialized coil design software Like :
USA COIL , GREENHECK , ... with parameters such as:
dry bulb air temperature and wet bulb temperature ,
water inlet and outlet temperature, volume of air
passing through the coil (CFM) , etc. Then with design
software such as AutoCAD or SolidWorks as a production
plan, ready to enter the production line.



General Information

Project Name : TAHVIEH ASEMAN - TEHRAN
Coil Item No. : WWW.TAHVIEHASEMAN.COM
Coil Tag : 3/8-4R-10FPI-25x100
Date : 09/14/2024 09:15:32
Model No : CW38DK04001000005R

Chilled Water

Coil Construction

Fin Type : 38 1.0 x 0.866 Sine
Fin Height : 10 inch
Fin'd Length : 40 inch
Rows Deep : 4
Fins/Inch : 10
Circuiting : Half
Tube Material : Copper
Tube Thick : 0.014 inch
Fin Material : Aluminum
Fin Thick : 0.0050 inch
Allow OppEnd : No

Coil dimension

Coil Specification



Coil Performance

Model No. : CW38DK04001000005R
Rows / FPI : 4 / 10
Circuiting : Half
Total Cap : 41,578 Btu/Hr
Sens Cap : 23,287 Btu/Hr
Lvg DB/WB : 59.2 / 56.9 °F
Face Velocity : 432.0 SFPM
Standard APD : 0.52 in. w.c.
Lvg Fluid : 53.4 °F
Fluid Flow : 8.5 GPM
Fluid PD : 14.05 ft H2O
Conn Size : 1.00"
Dry Weight : 36 Lbs

OUTPUT DATA

Capacity



FAN COIL



coils are designed as 3,4 according to the standard and with a fin density of 12 fins per inch. According to the pitch of fins, the width of the coils is 20 cm. This design helps us to have the lowest height in the final product.

Aluminum Thickness : 130 - 150 Micron
Type of Fin : Aluminum , Coated (Blue Fin)
Edge : Wave or Simple

Row: 3,4 row of copper tube
in Depth
Pipe : 8,10 pipe in Height
FPI : Fin Per Inch



Circuits in fan coils

Air vent

Fixed Frame

1.2 , 3.4
inch drain connection



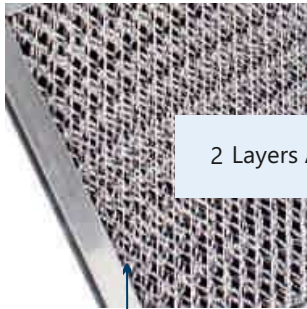
Forged Brass

Drain Valve

Easy Removable filter

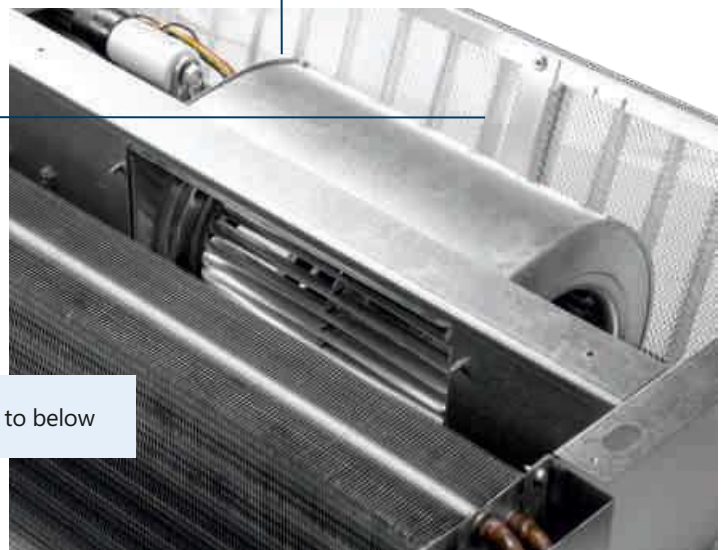


2 Layers Aluminum Filter



High efficient large centrifugal fan ensures strong and constant air flow. Axis's and bearings have been specially treated for longer service life.

Easy to change from back to below



Advanced Brushless DC motor High efficiency DC motor ensures a 30% more energy saving performance than AC FCU and a less than 0.5 °C temperature turbulence. Insulation Class B Protection Class IP42



High efficient large centrifugal fan ensures strong and constant air flow. Axis's and bearings have been specially treated for longer service life.



Ceiling Fan Coil

Model: SLIM

Capacity: 200-1200 CFM

Coil: 3.8-3 Row - 12 FPI

Fan: Metallic Centrifugal Fan

Motor: Electrogen

Filter: 2 Layer Aluminum

Static Pressure: 30 Pa



- * Suitable For Installation In The Ceiling With a Low Height
- * Three Standard speeds with a low noise level
- * Possibility of air return from below and behind
- * An external Plastic Drain pan
- * The possibility of using an electric heating coil
- * The possibility of using fresh air in the plenum
- * Forged brass collector with Air vent and Drain Valve
- * EVA Insulator: Drain Pan: 5mm, Body: 3mm

Model : SLIM			Ceiling Fan Coil						
MODEL			SLFC0200	SLFC0300	SLFC0400	SLFC0600	SLFC0800	SLFC1000	SLFC1200
COIL	AIR FLOW RATE (CFM)		200	300	400	600	800	1000	1200
	NOMINAL COOLING CAPACITY (BTU/HR)	TOTAL	6200	10200	14200	21100	30100	36300	42300
		SENSIBLE	4600	7100	9600	14200	19700	23900	28000
	HEATING		21000	30600	40000	57700	78000	94600	110800
	FACE AREA (SQ.FT)		1	1.1	1.5	1.8	2.5	2.7	2.9
	WATER FLOW RATE (GPM)	COOLING	1.2	2	2.8	4.2	6	7.2	8.4
		HEATING	2.2	3	4	6	8	9.7	11.3
	PIPING CONNECTION (IN)		3/4	3/4	3/4	3/4	3/4	3/4	3/4
	FIN ROW/FPI		3/12	3/12	3/12	3/12	3/12	3/12	3/12
MOTOR	POWER SUPPLY (V/HZ)		220/50						
	INPUT POWER (HP)		1/20	1/20	1/20	1/20	1/20+1/20	1/20+1/20	1/20+1/20
	NO OF MOTOR		1	1	1	1	2	2	2
	CLASS		ELECTROGEN (CLASS : B - IP 20 - 7 Mode)						
	MAX RPM		1100	1100	1100	1100	1100	1100	1100
FAN	TYPE		Centrifugal Fan (Metalic Forward Curved)						
	NO OF FAN		1	1	2	2	3	3	4
	AIR FLOW RATE (CFM)		300	300	200	300	300	300	300
	NOISE LEVEL (DB)		40	40	42	42	42	44	46
BODY	DIMENSION (L*W*H)	CM	66*52*21	76*52*21	86*52*21	101*52*21	131*52*21	141*52*21	151*52*21
	NET WEIGHT (Kg)		18	21	25	28	32	36	42
	FILTER		Aluminum (Optional Synthetic Nylon)						
	DRAIN PAN/ CONNECTION		Galvanized / 1/2						

Note:

1- Nominal condition at fan high speed, Cooling:

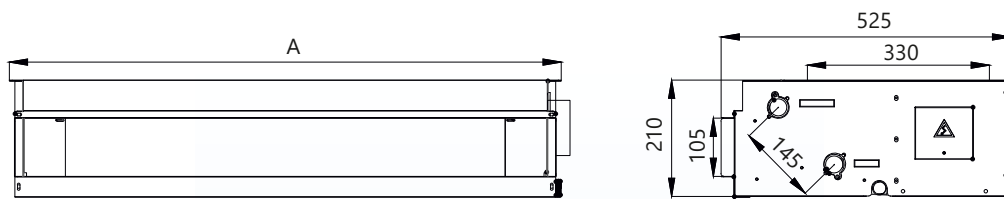
Ent Air DB: 80 F = 26C , Ent Air WB: 67 F = 19C
Ent Fluid Temp: 45 F = 7C , Lvg Fluid Temp: 55 F = 12C

2- Nominal condition at fan high speed, Heating:

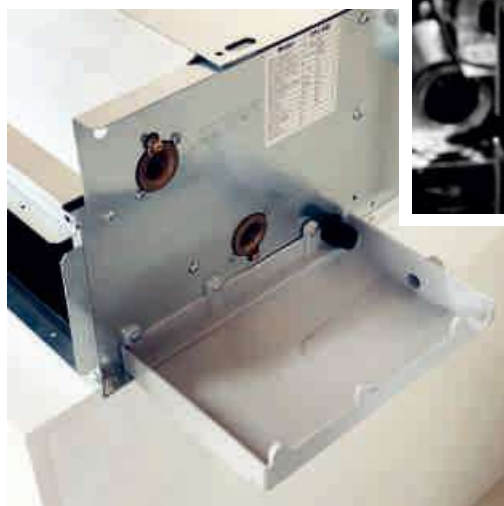
Ent Air DB: 60 F = 15C
Ent Fluid Temp: 180 F = 82C, Lvg Fluid Temp: 160 F = 71C

3- Static pressure is 30Pa measured

without filter and air outlet (No plenum)



SLIM	200	300	400	600	800	1000	1200
A (mm)	675	775	875	1025	1325	1425	1525
B (mm)	630	730	830	980	1280	1380	1480



Ceiling Fan Coil

Model: SILENT

Capacity: 200-1200 CFM

Coil: 3.8- 3 Row - 12 FPI

Fan: Metallic Centrifugal Fan

Motor: ElectroGen

Filter: 2 Layer Aluminum

Static Pressure: 30 Pa



- * Suitable For Installation In The Ceiling With a Low Noise
- * Three Standard speeds with a low noise level
- * Possibility of air return from below and behind
- * An external Plastic Drain pan
- * The possibility of using an electric heating coil
- * The possibility of using fresh air in the plenum
- * Forged brass collector with Air vent and Drain Valve
- * EVA Insulator: Drain Pan: 5mm, Body: 3mm

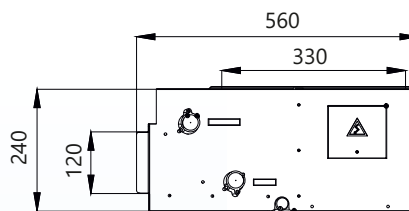
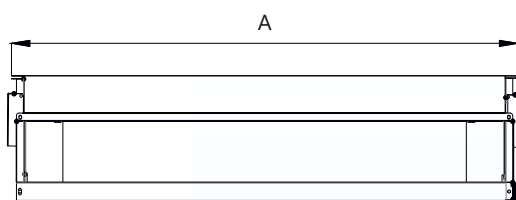
Model : SILENT				Ceiling Fan Coil						
MODEL				STFC0200	STFC0300	STFC0400	STFC0600	STFC0800	STFC1000	STFC1200
COIL	AIR FLOW RATE (CFM)			200	300	400	600	800	1000	1200
	NOMINAL CAPACITY	COOLING	TOTAL	6200	10200	14200	21100	30100	36300	42300
			SENSIBLE	4600	7100	9600	14200	19700	23900	28000
	(BTU/HR)	HEATING	21000	30600	40000	57700	78000	94600	110800	
	FACE AREA (SQ.FT)			1	1.1	1.5	1.8	2.5	2.7	2.9
	WATER FLOW RATE	COOLING	1.2	2	2.8	4.2	6	7.2	8.4	
		(GPM)	HEATING	2.2	3	4	6	8	9.7	11.3
	PIPING CONNECTION (IN)			3/4	3/4	3/4	3/4	3/4	3/4	3/4
	FIN ROW/FPI			3/12	3/12	3/12	3/12	3/12	3/12	3/12
MOTOR	POWER SUPPLY (V/HZ)			220/50						
	INPUT POWER (HP)			1/20	1/20	1/20	1/20	1/20+1/20	1/20+1/20	1/20+1/20
	NO OF MOTOR			1	1	1	1	2	2	2
	CLASS			ELECTROGEN (CLASS : B - IP 20 - 7 Mode)						
	MAX RPM			1100	1100	1100	1100	1100	1100	1100
FAN	TYPE			Centrifugal Fan (Metalic Forward Curved)						
	NO OF FAN			1	1	2	2	3	3	4
	AIR FLOW RATE (CFM)			350	350	250	350	350	350	350
	NOISE LEVEL (DB)			38	38	40	40	40	42	44
BODY	DIMENSION (L*W*H)	CM	66*56*24	76*56*24	86*56*24	101*56*24	131*56*24	141*56*24	151*56*24	
	NET WEIGHT (Kg)		15	17	21	24	26	33	37	
	FILTER		Aluminum (Optional Synthetic Nylon)							
	DRAIN PAN/ CONNECTION			Galvanized / 1/2						

Note:

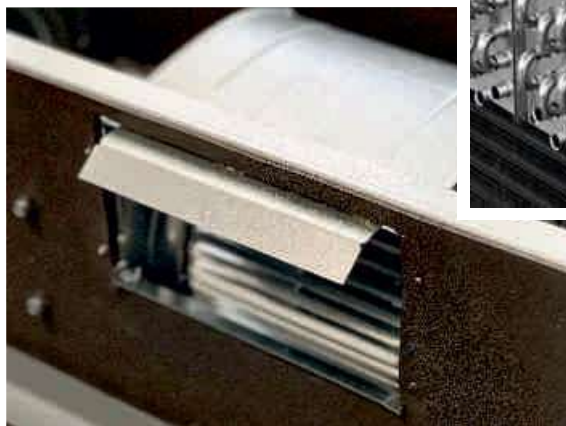
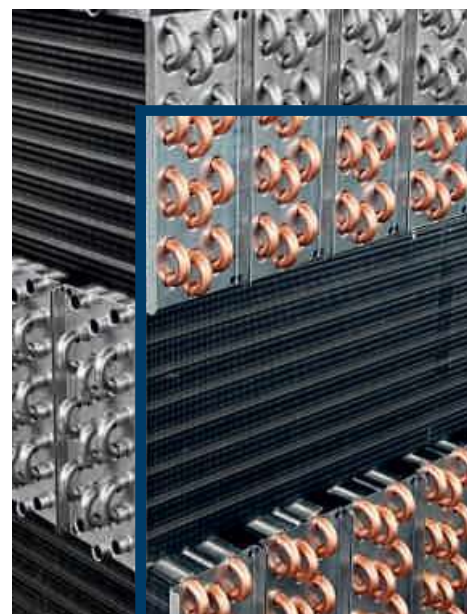
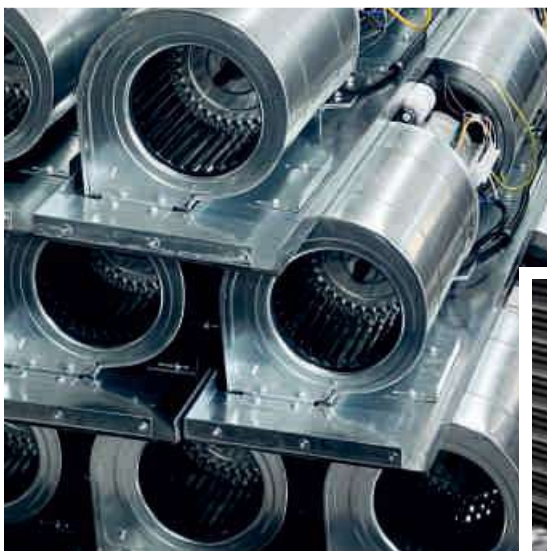
1- Nominal condition at fan high speed, Cooling:
Ent Air DB:80 F = 26C , Ent Air WB: 67 F = 19C
Ent Fluid Temp:45 F = 7C, Lvg Fluid Temp: 55 F = 12C

2- Nominal condition at fan high speed, Heating:
Ent Air DB:60 F = 15C
Ent Fluid Temp:180 F = 82C, Lvg Fluid Temp: 160 F = 71C

3- Air flow is tested with standard air condition and dry coil
4- Static pressure is 30 Pa measured without filter and air outlet (No plenum)



AILENT	200	300	400	600	800	1000	1200
A (mm)	675	775	875	1025	1325	1425	1525
B (mm)	630	730	830	980	1280	1380	1480



Ceiling Fan Coil

Model: STANDARD

Capacity: 200-1200 CFM
Coil: 3.8-3 Row - 12 FPI
Fan: Metallic Centrifugal Fan
Motor: Electrogen
Filter: 2 Layer Aluminum
Static Pressure: 30 Pa



- * Suitable For Installation In The Ceiling With a Low Height
- * Three Standard speeds with a low noise level
- * Possibility of air return from below and behind
- ** The possibility of using an electric heating coil
- * The possibility of using fresh air in the plenum
- * Forged brass collector with Air vent and Drain Valve
- * EVA Insulator: Drain Pan: 5 mm, Body: 3 mm

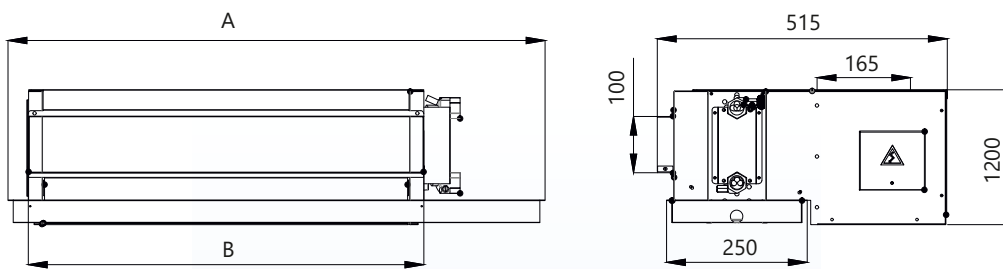
Model : STANDARD		Ceiling Fan Coil						
MODEL		SDFC0200	SDFC0300	SDFC0400	SDFC0600	SDFC0800	SDFC1000	SDFC1200
COIL	AIR FLOW RATE (CFM)	200	300	400	600	800	1000	1200
	NOMINAL COOLING TOTAL	6200	10200	14200	21100	30100	36300	42300
	CAPACITY COOLING SENSIBLE	4600	7100	9600	14200	19700	23900	28000
	(BTU/HR) HEATING	21000	30600	40000	57700	78000	94600	110800
	FACE AREA (SQ.FT)	1	1.1	1.5	1.8	2.5	2.7	2.9
	WATER FLOW RATE COOLING	1.2	2	2.8	4.2	6	7.2	8.4
	(GPM) HEATING	2.2	3	4	6	8	9.7	11.3
	PIPING CONNECTION (IN)	3/4	3/4	3/4	3/4	3/4	3/4	3/4
MOTOR	FIN ROW/FPI	3/12	3/12	3/12	3/12	3/12	3/12	3/12
	POWER SUPPLY (V/Hz)	220/50						
	INPUT POWER (HP)	1/20	1/20	1/20	1/20	1/20+1/20	1/20+1/20	1/20+1/20
	NO OF MOTOR CLASS	1	1	1	1	2	2	2
	MAX RPM	1100	1100	1100	1100	1100	1100	1100
FAN	TYPE	Centrifugal Fan (Metalic Forward Curved)						
	NO OF FAN	1	1	2	2	3	3	4
	AIR FLOW RATE (CFM)	350	350	250	350	350	350	350
	NOISE LEVEL (DB)	38	38	40	40	40	42	44
BODY	DIMENSION (L*W*H) CM	80*53*24	90*53*24	100*53*24	115*53*24	155*53*24	155*53*24	155*53*24
	NET WEIGHT (Kg)	15	17	21	24	26	33	37
	FILTER	Aluminum (Optional Synthetic Nylon)						
DRAIN PAN/ CONNECTION		Galvanized / 3/4						

Note:

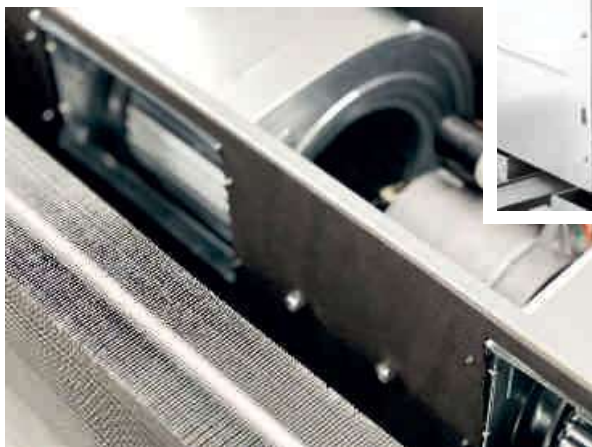
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Ent Fluid Temp: 45 F = 7C, Lvg Fluid Temp: 55 F = 12C

2- Nominal condition at fan high speed, Heating:
Ent Air DB: 60 F = 15C
Ent Fluid Temp: 180 F = 82C, Lvg Fluid Temp: 160 F = 71C

3- Air flow is tested with standard air condition and dry coil
4- Static pressure is 30Pa measured without filter and air outlet (No plenum)



STANDARTD	200	300	400	600	800	1000	1200
A (mm)	750	860	970	1120	1500	1500	1500
B (mm)	500	600	700	850	1200	1250	1350
C (mm)	480	580	680	830	1180	1230	1230



Ceiling Fan Coil

Model: STANDARD - 4P

Capacity: 200-1200 CFM
Coil: 3.8-4 Row - 12 FPI
Fan: Metallic Centrifugal Fan
Motor: ElectroGen
Filter: 2 Layer Aluminum
Static Pressure: 30 Pa



- * Suitable For Installation In The Ceiling With a Low Height
- * Three Standard speeds with a low noise level
- * Possibility of air return from below and behind
- ** The possibility of using an electric heating coil
- * The possibility of using fresh air in the plenum
- * Forged brass collector with Air vent and Drain Valve
- * EVA Insulator: Drain Pan: 5 mm, Body: 3 mm

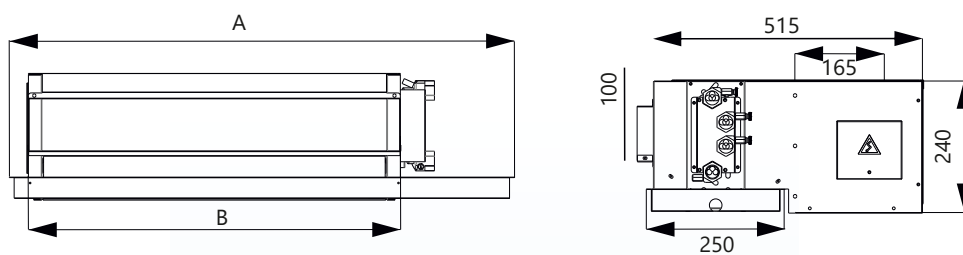
Model: STANDARD-4P			Ceiling Fan Coil					
MODEL			SDFC0204	SDFC0304	SDFC0404	SDFC0604	SDFC804	SDFC1004
COIL	AIR FLOW RATE (CFM)		200	300	400	600	800	1000
	NOMINAL COOLING CAPACITY (BTU/HR)	TOTAL	7400	11500	16000	24900	31500	37800
		SENSIBLE	5000	7700	10400	15900	20300	24600
	HEATING		13100	18100	23600	34500	42600	50300
	FACE AREA (SQ.FT)		1.1	1.5	1.8	2.5	2.7	2.9
	WATER FLOW RATE (GPM)	COOLING	2	2.8	4.2	6	7.2	8.4
		HEATING	1.3	1.9	2.4	3.5	4.4	5.2
	PIPING CONNECTION (IN)		3/4	3/4	3/4	3/4	3/4	3/4
	FIN ROW/FPI		3+1/12	3+1/12	3+1/12	3+1/12	3+1/12	3+1/12
	POWER SUPPLY (V/HZ)		220/50					
MOTOR	INPUT POWER (HP)		1/20	1/20	1/20	1/20+1/20	1/20+1/20	1/20+1/20
	NO OF MOTOR CLASS		1	1	1	2	2	2
	MAX RPM		1100	1100	1100	1100	1100	1100
	TYPE		Centrifugal Fan (Metalic Forward Curved)					
FAN	NO OF FAN		1	2	2	3	3	4
	AIR FLOW RATE (CFM)		350	250	350	350	350	350
	NOISE LEVEL (DB)		38	40	40	40	42	44
	DIMENSION (L*W*H) CM		90*53*24	100*53*24	115*53*24	155*53*24	155*53*24	155*53*24
BODY	NET WEIGHT (Kg)		20	24	27	29	36	40
	FILTER		Aluminum (Optional Synthetic Nylon)					
	DRAIN PAN/ CONNECTION		Galvanized / 3/4					

Note:

1- Nominal condition at fan high speed, Cooling:
Ent Air DB: 80 F = 26C, Ent Air WB: 67 F = 19C
Ent Fluid Temp: 45 F = 7C, Lvg Fluid Temp: 55 F = 12C

2- Nominal condition at fan high speed, Heating:
Ent Air DB: 60 F = 15C
Ent Fluid Temp: 180 F = 82C, Lvg Fluid Temp: 160 F = 71C

3- Air flow is tested with standard air condition and dry coil
4- Static pressure is 30Pa measured without filter and air outlet (No plenum)



STANDARTD	200	300	400	600	800	1000
A (mm)	860	970	1120	1500	1500	1500
B (mm)	600	700	850	1200	1250	1350
C (mm)	580	680	830	1180	1230	1230



Ceiling Ducted Fan Coil

Model: DUCTED FAN COIL

Capacity: 600-2000 CFM
Coil: 3.8-4 Row - 12 FPI
Fan: Metalic Centrifugal Fan
Motor: Electrogen
Filter: 2 Layer Aluminum
Static Pressure: 50 Pa



- * Suitable For Installation In The Ceiling With a Low Height
- * Three Standard speeds with a low noise level
- * Possibility of removing filter from 4 direction
- * The possibility of using an electric heating coil
- * The possibility of using fresh air in the plenum
- * Forged brass collector with Air vent and Drain Valve
- * EVA Insulator: Drain Pan: 5 mm, Body: 3 mm

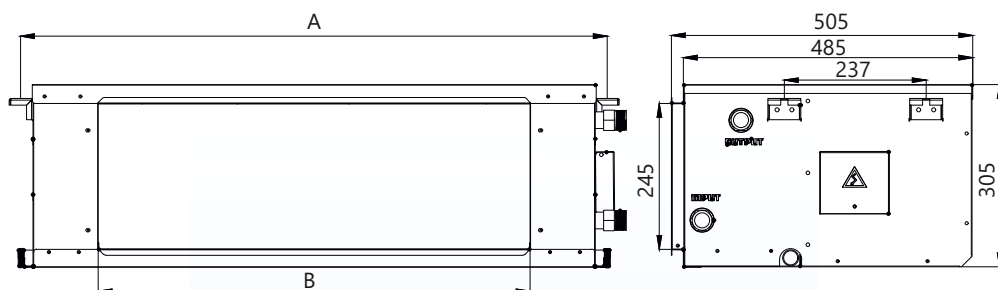
Model : DUCTED FAN COIL			Ceiling Ducted Fan Coil							
MODEL			MSDF0600	MSDF0800	MSDF1000	MSDF1200	MSDF1400	MSDF1600	MSDF1800	MSDF2000
COIL	AIR FLOW RATE (CFM)		600	800	1000	1200	1400	1600	1800	2000
	NOMINAL CAPACITY	COOLING	23800	29100	35100	40800	48000	55400	61100	66700
		TOTAL SENSIBLE	15700	19600	23900	27900	32700	37500	41500	45500
	(BTU/HR)	HEATING	67000	84700	102700	120000	139500	158800	175900	192800
		FACE AREA (SQ.FT)	2	2	2.1	2.3	2.5	2.8	3	3.1
	WATER FLOW RATE	COOLING	4.7	5.8	7	8.1	9.6	11	12.2	13.3
		(GPM) HEATING	7	8.7	10.5	12.3	14.5	16.3	18	19.7
	PIPING CONNECTION (IN)		1	1	1	1	1	1	1	1
MOTOR	FIN ROW/FPI		4/12	4/12	4/12	4/12	4/12	4/12	4/12	4/12
	POWER SUPPLY (V/HZ)		220/50							
	INPUT POWER (W)		60	187	187	187	187	187+60	187+80	187+80
	NO OF MOTOR		1	1	1	1	1	2	2	2
	CLASS		ELECTROGEN (CLASS : B - IP 24)							
	MAX RPM		1350	1350	1350	1350	1350	1350	1350	1350
FAN	TYPE		Centrifugal Fan (Metalic Forward Curved)							
	NO OF FAN		2	2	2	2	2	3	3	3
	AIR FLOW RATE (CFM)		400	600	600	750	750	600	750	750
	NOISE LEVEL (DB)		48	50	52	52	54	58	60	62
BODY	DIMENSION (L*W*H) CM		100*50*30	100*50*30	105*50*30	110*50*30	120*50*30	130*50*30	135*50*30	140*50*30
	NET WEIGHT (Kg)		30	33	36	40	45	50	52	54
	FILTER		Aluminum (Optional Synthetic Nylon)							
	DRAIN PAN/ CONNECTION		Galvanized / 3/4							

Note:

1- Nominal condition at fan high speed, Cooling:
Ent Air DB:80 F = 26C , Ent Air WB: 67 F = 19C
Ent Fluid Temp:45 F = 7C, Lvg Fluid Temp: 55 F = 12C

2- Nominal condition at fan high speed, Heating:
Ent Air DB:60 F = 15C
Ent Fluid Temp:180 F = 82C, Lvg Fluid Temp: 160 F = 71C

3- Air flow is tested with standard air condition and dry coil
4- Static pressure is 50Pa measured without filter and air outlet (No plenum)



MSDF	600	800	1000	1200	1400	1600	1800	2000
A (mm)	950	950	1000	1050	1150	1250	1300	1350
B (mm)	692	692	742	792	892	992	1042	1092



Celling Ducted Fan Coil

Model: DUCTED FAN COIL - 4P

Capacity: 400-1800 CFM
 Coil: 3.8-4 Row - 12 FPI
 Fan: Metalic Centrifugal Fan
 Motor: Electrogen
 Filter: 2 Layer Aluminum
 Static Pressure: 50 Pa



- * Suitable For Installation In The Ceiling With a Low Height
- * Three Standard speeds with a low noise level
- * Possibility of removing filter from 4 direction
- * The possibility of using an electric heating coil
- * The possibility of using fresh air in the plenum
- * Forged brass collector with Air vent and Drain Valve
- * EVA Insulator: Drain Pan: 5 mm, Body: 3 mm

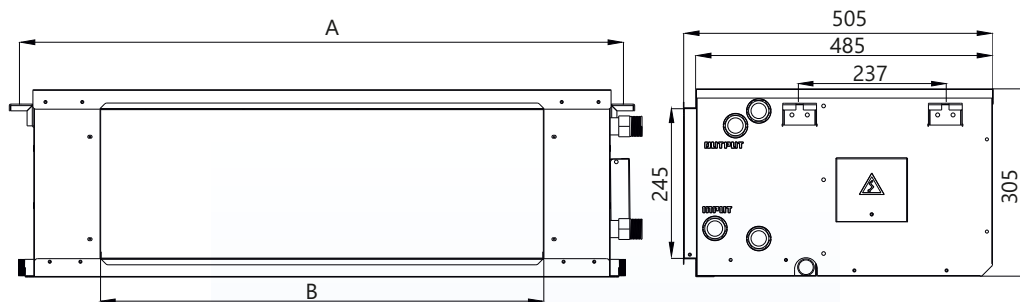
Model: DUCTED FAN COIL-4P				Ceiling Ducted Fan Coil							
MODEL				MSDF0404	MSDF0604	MSDF0804	MSDF1004	MSDF1204	MSDF1404	MSDF1604	MSDF1804
COIL	AIR FLOW RATE (CFM)			400	600	800	1000	1200	1400	1600	1800
	NOMINAL CAPACITY	COOLING	TOTAL	18600	22700	27600	32300	38500	44600	49200	53700
			SENSIBLE	13300	16600	20200	23700	27800	31900	35300	38700
	(BTU/HR)		HEATING	29500	34700	40900	46900	54500	62200	68000	73800
	FACE AREA (SQ.FT)			1.94	1.94	2.1	2.2	2.5	2.8	2.92	3
	WATER FLOW RATE	COOLING	3.7	4.5	5.5	6.4	7.7	8.9	9.8	10.7	
		(GPM)	HEATING	3	3.6	4.2	4.8	5.6	6.4	7	7.6
	PIPING CONNECTION (IN)			1	1	1	1	1	1	1	1
FIN ROW/FPI			3+1/12	3+1/12	3+1/12	3+1/12	3+1/12	3+1/12	3+1/12	3+1/12	
MOTOR	POWER SUPPLY (V/HZ)			220/50							
	INPUT POWER (W)			60	187	187	187	187	187+60	187+80	187+80
	NO OF MOTOR			1	1	1	1	1	2	2	2
	CLASS			ELECTROGEN (CLASS : B - IP 22)							
	MAX RPM			1100	1100	1100	1100	1100	1100	1100	1100
FAN	TYPE			Centrifugal Fan (Metalic Forward Curved)							
	NO OF FAN			2	2	2	2	2	3	3	3
	AIR FLOW RATE (CFM)			400	600	600	750	750	600	750	750
	NOISE LEVEL (DB)			48	50	52	52	54	58	60	60
BODY	DIMENSION (L*W*H)	CM	100*50*30	105*50*30	110*50*30	120*50*30	130*50*30	135*50*30	140*50*30	140*50*30	
	NET WEIGHT (Kg)		30	33	36	40	45	50	52	52	
	FILTER		Aluminum (Optional Synthetic Nylon)								
	DRAIN PAN/ CONNECTION			Galvanized / 3/4							

Note:

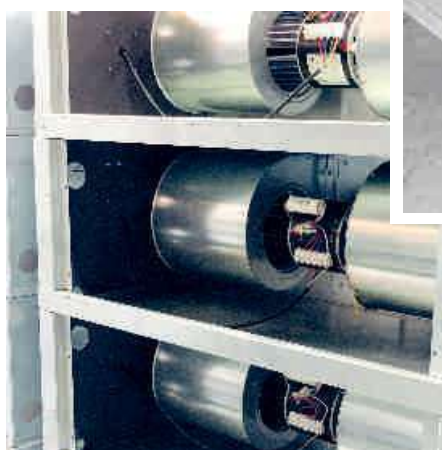
1- Nominal condition at fan high speed, Cooling:
 Ent Air DB: 80 F = 26C , Ent Air WB: 67 F = 19C
 Ent Fluid Temp: 45 F = 7C, Lvg Fluid Temp: 55 F = 12C

2- Nominal condition at fan high speed, Heating:
 Ent Air DB: 60 F = 15C
 Ent Fluid Temp: 180 F = 82C, Lvg Fluid Temp: 160 F = 71C

3- Air flow is tested with standard air condition and dry coil
 4- Static pressure is 50Pa measured without filter and air outlet (No plenum)



MSDF	40	600	800	1000	1200	1400	1600	1800
A (mm)	950	950	1000	1050	1150	1250	1300	1350
B (mm)	692	692	742	792	892	992	1042	1092



Ceiling Fan Coil

Model: HIGH DUCTED FAN COIL

Capacity: 750-2000 CFM

Coil: 3.8- 4 Row - 12 FPI

Fan: Electro Fan - 3 Mode

Filter: 2 Layer Aluminum

Static Pressure: 100 Pa



- * Suitable For high static pressure in duct
- * Variable speeds with dimmer and low noise level
- * Possibility of removing filter from below
- * Possibility of removing fan & motor from below
- * The possibility of using an electric heating coil
- * The possibility of using fresh air in the plenum

Model : HIGH DUCTED FAN COIL			Ceiling Ducted Fan Coil			
MODEL			HDFC750	HDFC1000	HDFC1500	HDFC2000
COIL	AIR FLOW RATE (CFM)		750	1000	1500	2000
	NOMINAL COOLING CAPACITY (BTU/HR)	TOTAL	20500	31000	53900	76000
		SENSIBLE	15900	22500	36400	50100
		HEATING	77400	102800	156200	209700
	FACE AREA (SQ.FT)		1.78	2.2	3.2	4.5
	WATER FLOW RATE (GPM)	COOLING	4.1	6.2	10.7	15
		HEATING	7.9	10.5	16	21.5
	PIPING CONNECTION (IN)		1	1	1-1/4	1-1/4
	FIN ROW/FPI		4-12	4-12	4-12	4-12
	POWER SUPPLY (V/HZ)		220/50	220/50	220/50	220/50
MOTOR	INPUT POWER (W)		350	420	700	850
	NO OF MOTOR		1	1	2	2
	PROTECTION CALSS		IP54	IP54	IP54	IP54
	MAX RPM		950	820	950	820
	TYPE		2025	2520	2025	2520
FAN	NO OF FAN		1	1	2	2
	MAX CURRENT (A)		1/8	2	3/6	4
	NOISE LEVEL (DB)		65	64	66	68
	DIMENSION (L*W*H) CM		73*70*45	83*70*45	108*70*45	133*70*45
BODY	NET WEIGHT (Kg)		52	56	60	80
	FILTER		Aluminum (Optional Synthetic Nylon)			
	DRAIN PAN/ CONNECTION		Galvanized / 3/4			

Note:

1- Nominal condition at fan high speed, Cooling:

Ent Air DB:80 F = 26C, Ent Air WB: 67 F = 19C

Ent Fluid Temp:45 F = 7C, Lvg Fluid Temp: 55 F = 12C

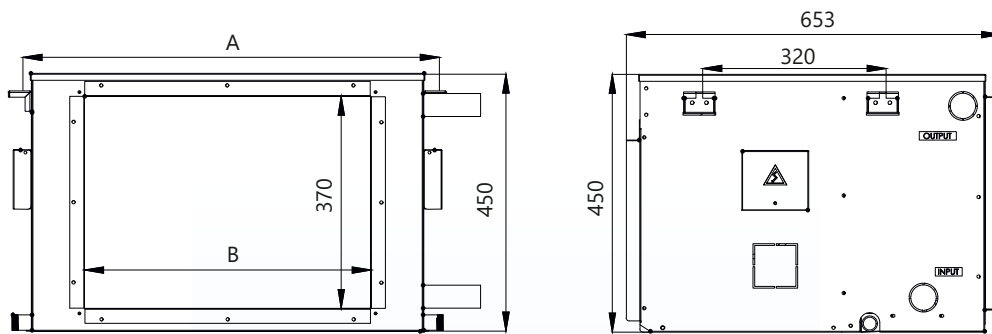
2- Nominal condition at fan high speed, Heating:

Ent Air DB:60 F = 15C

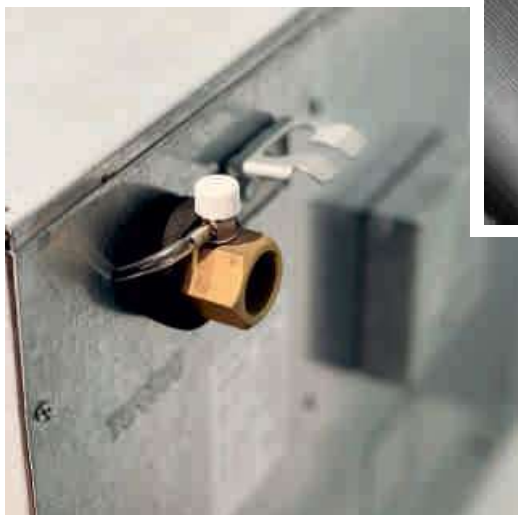
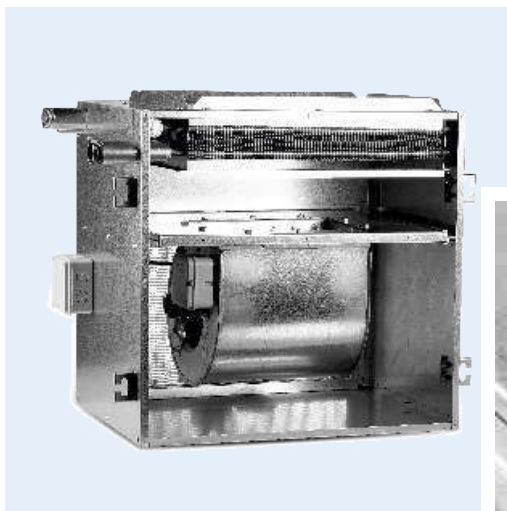
Ent Fluid Temp:180 F = 82C, Lvg Fluid Temp: 160 F = 71C

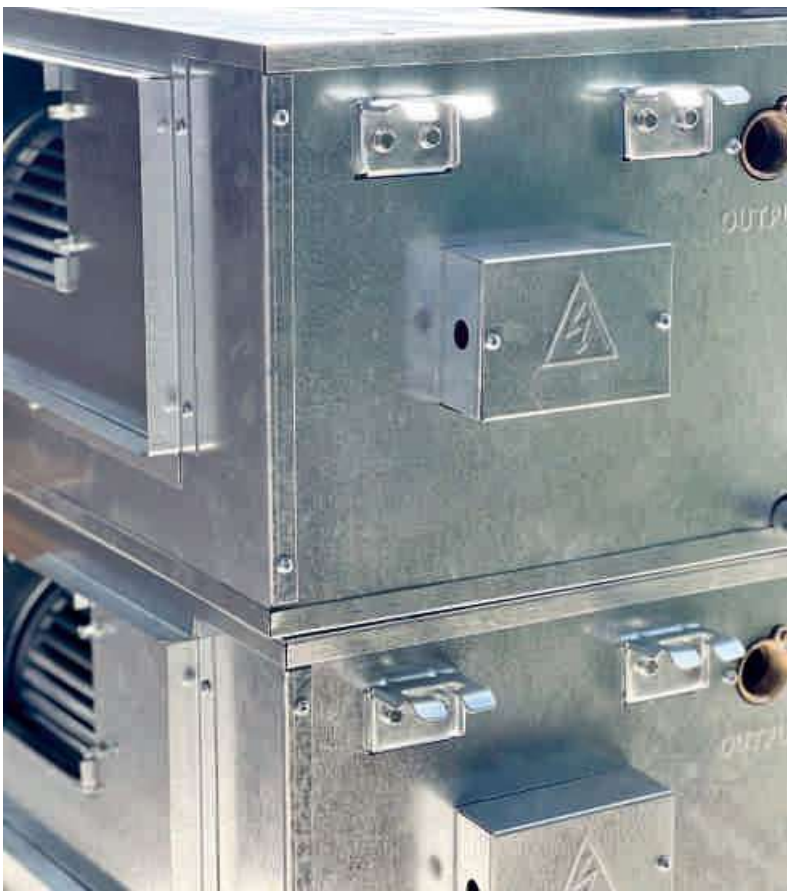
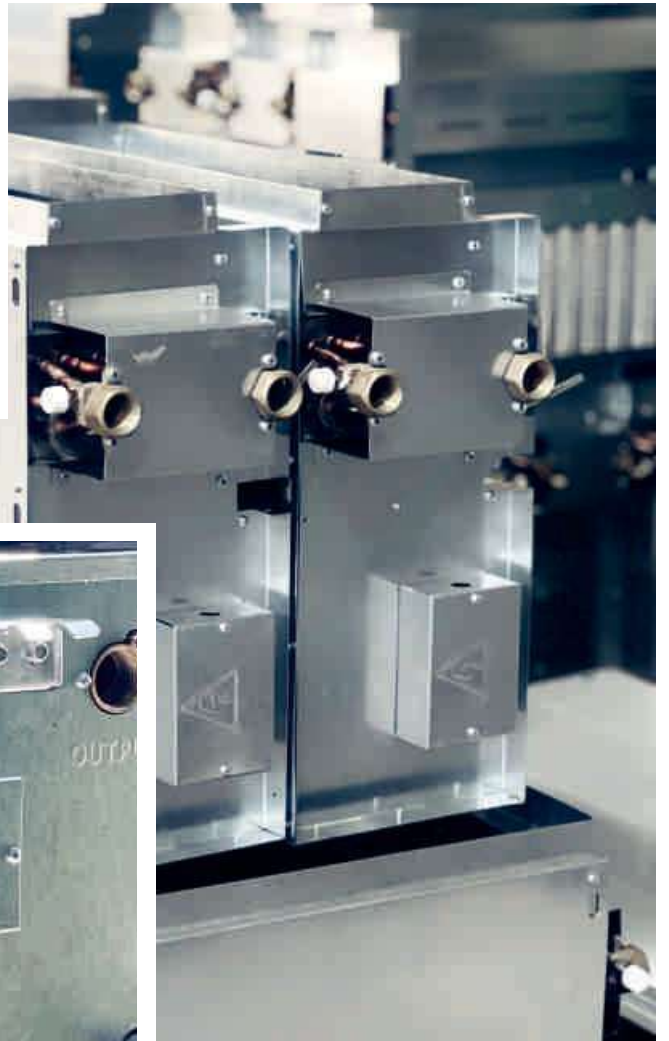
3- Air flow is tested with standard air condition and dry coil

4- Static pressure is 100 Pa measured



HDFC	750	1000	1500	2000
A (mm)	585	685	935	1185
B (mm)	400	500	750	1000







MINI CHILLER



Mini Chiller

Model: COMPACT

Air Cooled Chiller

Capacity : 4-8 TON (Nominal)

Compressor : Scroll , Copeland or Danfoss

Condenser : Air Cooled , Fan : Zilabeg

Expansion Valve : Thermostatic

Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Solenoid Valve

High & Low, KP, Anti Freeze, Thermostat



MODEL: COMPACT		R22-R407C	CSC22004	CSC22005	CSC22006	CSC22008
CAPACITY	NOMINAL	TON	4	5	6	8
		KW	11.9	14.5	17.6	23.3
	ACTUAL	TON	3.4	4.1	5.0	6.7
COMPRESSOR	TYPE	SCROLL	1 Circuit	1 Circuit	1 Circuit	1 Circuit
	QTY	-	1	1	1	1
	BRAND	-	COPELAND	COPELAND	COPELAND	COPELAND
	MODEL	ZR	ZR48	ZR61	ZR72	ZR94
	REFRIGERANT	TYPE	R22-R407C	R22-R407C	R22-R407C	R22-R407C
	Max Current	A	6.5	7.38	7.93	9.5
	COP	-	4.2	4.1	4.0	3.9
CONDENSER	COIL	TYPE	Fin-Tube	Fin-Tube	Fin-Tube	Fin-Tube
		QTY	1	1	1	1
		ROW-FPI	3-12	3-12	3-12	4-12
	FAN	QTY	1	1	1	1
		MODEL	50	50	63	63
		RPM	900	1320	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT	23	24.5	26	28
	FLOW RATE	GPM	8	10	12	16
UNIT DIMENSION	L	cm	150	150	150	150
	W	cm	95	95	95	95
	H	cm	140	140	140	140
CONNECTION	INLET / OUTLET	IN	1	1	1-1.4	1-1.4
ELECTRICAL DATA	VOLTAGE	V	220.380	380	380	380
	MAX POWER INPUT	KW	5	6	7	8
	MAX CURRENT	A	10	11	12	13

Capacity Correction Of Air Cooled Chiller		Air Temperature Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	CSC22004	3.0	11.9	8	3.3	11.5	8	3.4	11.2	8
	CSC22005	3.6	14.5	10	3.9	14.0	10	4.0	13.7	9
	CSC22006	4.3	17.6	12	4.6	17.0	12	4.8	16.7	11
	CSC22008	5.5	23.3	16	5.8	22.6	15	6.1	22.0	15

Note:

1- Nominal conditions

Evaporator IN/OUT Water Temperature : 12-7 C

Outdoor Air Temperature : 35C

Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft

KW/3.5=TON

Mini Chiller

Model: PERMIUM

Air Cooled Chiller

Capacity: 10-18 TON (Nominal)

Compressor : Scroll , Copeland or Danfoss

Condenser : Air Cooled , Fan : Zilabeg

Expansion Valve : Thermostatic

Evaporator : Shell & Tube

Pssibility of being 1,2 Circuit

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve

High & Low, KP, Anti Freeze, Thermostat



MODEL: PERMIUM		R22-407C	HSC22010	HSC22012	HSC22014	HSC22016	HSC22018
CAPACITY	NOMINAL	TON	10	12	14	16	18
	ACTUAL	KW	29.0	35.2	40.0	46.6	52.6
		TON	8.3	10.1	11.4	13.3	15.0
COMPRESSOR	TYPE	SCROLL	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-	2	2	2	2	2
	BRAND	-	COPELAND	COPELAND	COPELAND	COPELAND	COPELAND
	MODEL	ZR	ZR61	ZR72	ZR81	ZR94	ZR108
	REFRIGERANT	TYPE	R22/R407C	R22/R407C	R22/R407C	R22/R407C	R22/R407C
	Max Current	A	11	12	15	17	17
	COP	-	4.1	4.0	4.1	3.9	
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	2	2	2	2	2
		ROW-FPI	3-12	3-12	3-12	4-12	4-12
	FAN	QTY	1	1	1	1	1
		MODEL	63	63	63	71	71
		RPM	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT	27	35	45	55	55
		GPM	20	24	27	32	36
UNIT DIMENSION	L	cm	240	240	240	240	240
	W	cm	95	95	95	95	95
	H	cm	140	140	140	140	140
CONNECTION	INLET / OUTLET	IN	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380
	MAX POWER INPUT	KW	10	11	13	15	16
	MAX CURRENT	A	15	17	20	23	30

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSC22010	7.2	29.0	20	7.8	28.0	19	8.0	27.4	19
	HSC22012	8.6	35.2	24	9.2	35.0	24	5.6	33.4	23
	HSC22014	9.6	40.0	27	10.0	38.5	26	10.6	37.7	26
	HSC22016	11.0	46.6	32	11.6	45.2	31	12.2	44.0	30
	HSC22018	12.28	52.6	36	13.1	51	35	13.6	50	34

Note:

1- Nominal conditions

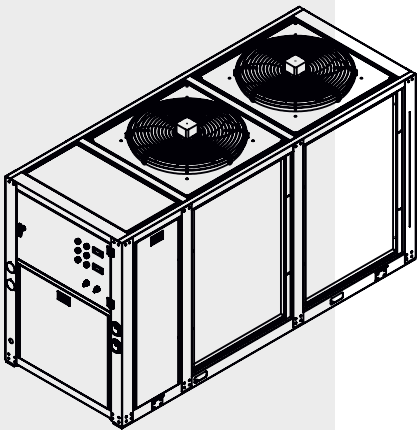
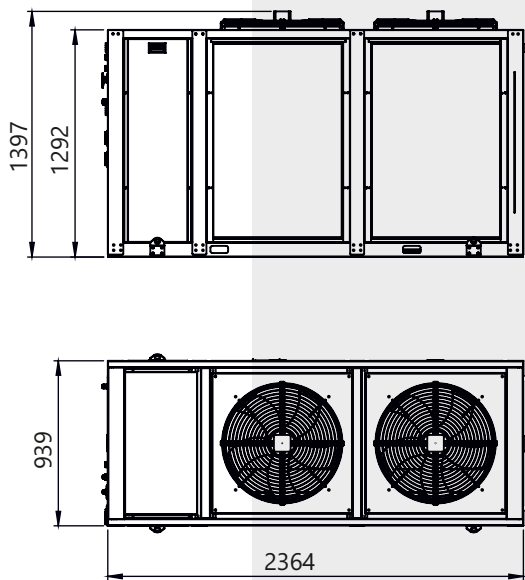
Evaporator IN/OUT Water Temperature : 12-7 C

Outdoor Air Temperature : 35C

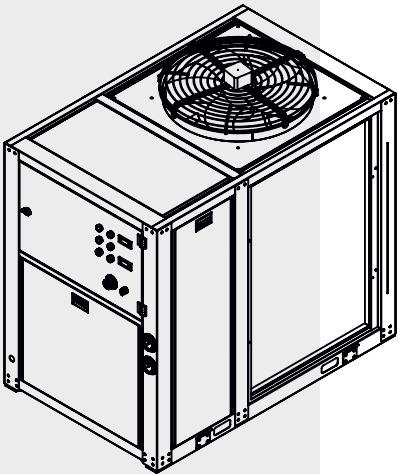
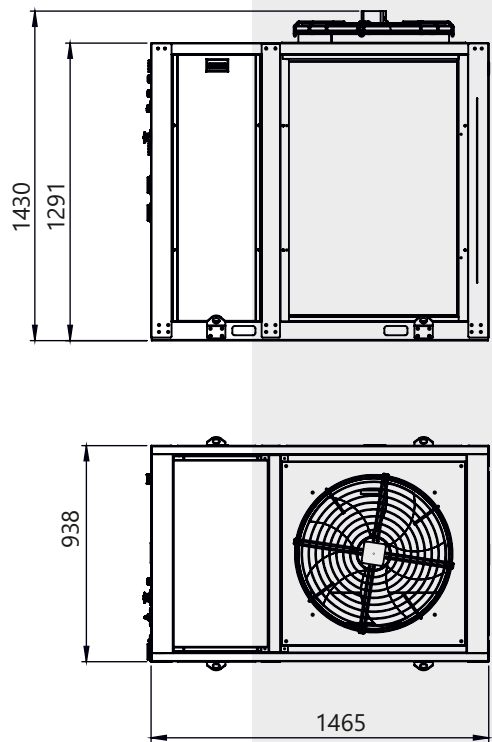
Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft

KW/3.5=TON

PERMIUM



COMPACT



AIR COOLED CHILLER MODEL : MIDDLE



Air Cooled Chiller

Model: MIDDLE - Scroll -R22

Air Cooled Chiller

Capacity: 15-30 TON (Nominal)

Compressor : Scroll , Copeland

Condenser : Air Cooled , Fan : Zilabeg,EBM

Expansion Valve : Thermostatic

Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
High & Low, KP, Anti Freez, Thermostat



MODEL: MIDDLE			R22-407C	MSC22015	MSC22020	MSC22025	MSC22030
CAPACITY	NOMINAL	TON	15	20	25	30	
	ACTUAL	KW	45.0	60.0	68.4	87.8	
COMPRESSOR	TYPE	SCROLL	2 Circuit	2 Circuit	2 Circuit	2 Circuit	
	QTY	-	2	2	2	2	
	BRAND	-	Copeland	Copeland	Copeland	Copeland	
	MODEL	ZR	ZR94	ZR125	ZR144	ZR190	
	REFRIGERANT	TYPE	R22-407C	R22-407C	R22-407C	R22-407C	
	Max Current	A	24	30	34	48	
	COP	-	4.2	4.3	4.3	4	
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	
		QTY	2	2	2	2	
		ROW-FPI	3-12	3-12	4-12	4-12	
	FAN	QTY	2	2	2	2	
		MODEL	71	71	80	80	
EVAPORATOR	TYPE	RPM	900	900	900	900	
		SHELL TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	
		LIT	27	42	75	105	
UNIT DIMENSION	FLOW RATE	GPM	31	41	47	60	
		L	250	250	250	250	
		W	132	132	132	132	
CONNECTION	INLET / OUTLET	cm	235	235	235	235	
		IN	1-1.2	2	2	2-1.2	
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	
		KW	15	18	22	28	
		A	30	36	40	52	

Capacity Correction Of Air Cooled Chiller		Air Tempreture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	MSC22015	11	45	31	12	43	30	12	43	29
	MSC22020	15	60	41	16	58	40	16	57	39
	MSC22025	16	68	47	18	66	45	18	65	44
	MSC22030	22	88	60	24	85	58	25	83	57

Note:

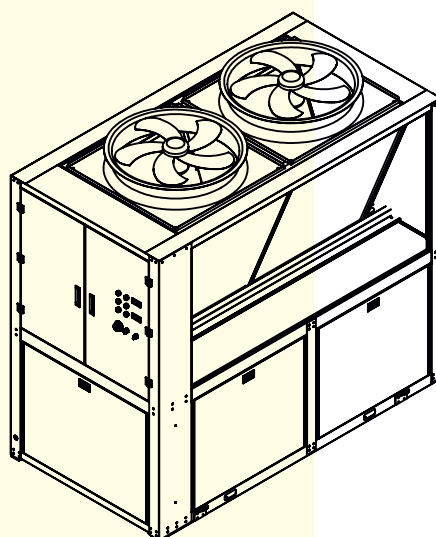
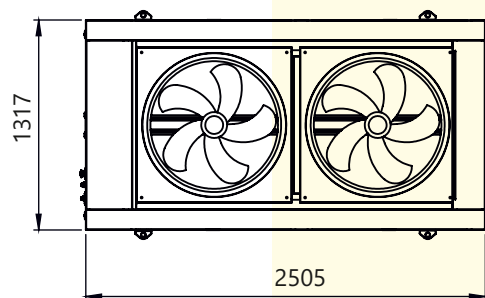
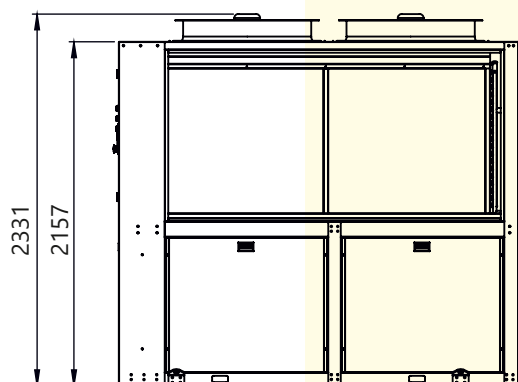
1- Nominal conditions

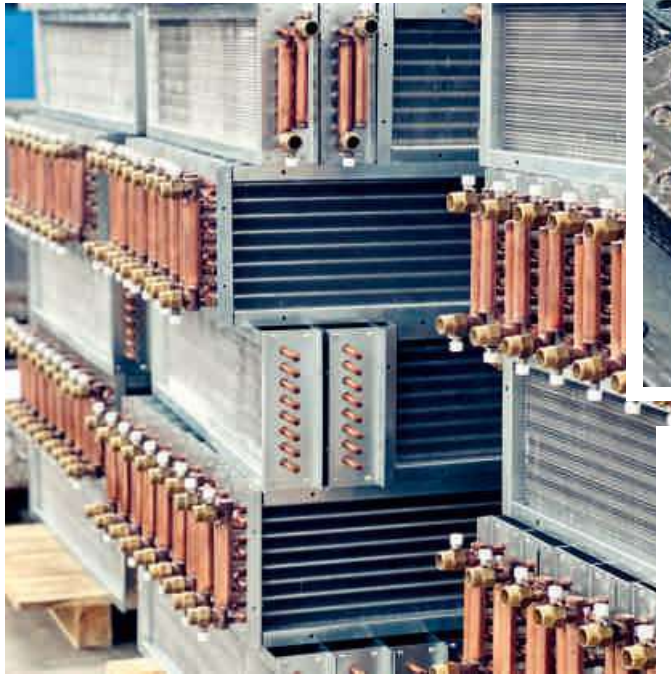
Evaporator IN/OUT Water Temperature : 12-7 C

Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft

KW/3.5=TON

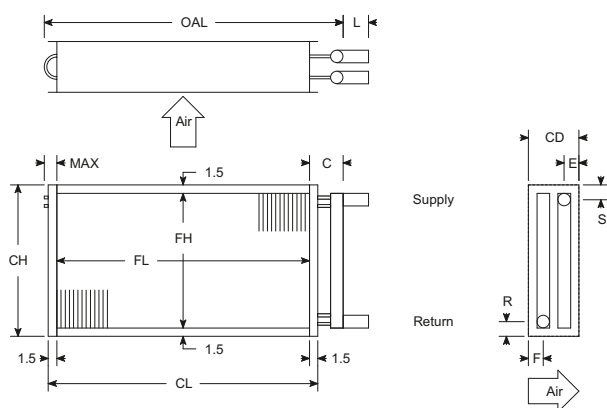
MIDDLE





AIR COOLED CHILLER
MODEL : HEAVY
COMPRESSOR : SCROLL





Condenser Coil

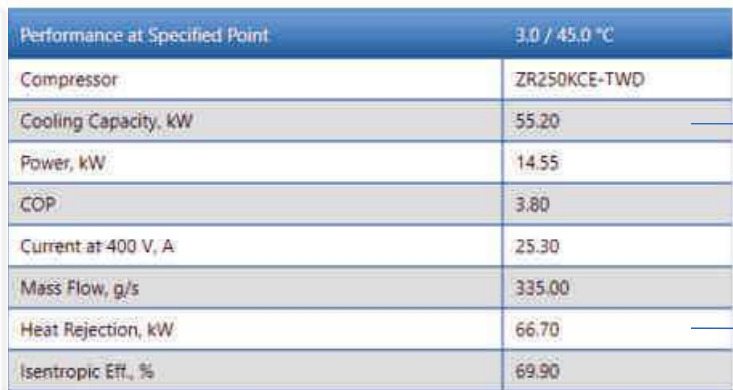
Tag	Qty	Model	Footnotes	Comment
C-1	1	CD38S04H12-40x80-RH	a,b	

Construction and Performance Details

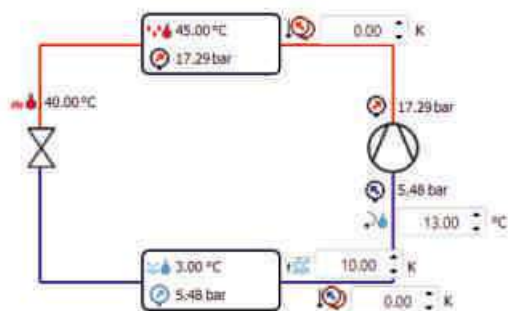
Tag	C-1	
Air flow (SCFM)	12000	FAN AIR FLOW
Altitude (ft)	4000	
Condenser capacity (MBH)	179.4	CONDENSER CAPACITY
Desuperheat capacity (MBH)	22.3	
Entering dry bulb (°F)	95.0	REFRIGERANT
Leaving dry bulb (°F)	108.8	
Face velocity (ft/min)	540	REFRIGERANT
Air pressure drop (in of water)	0.48	
Air fouling factor (h·ft²·°F/Btu)	0.00000	REFRIGERANT
Refrigerant	R-134a	
Condensing temp. (°F)	113.0	REFRIGERANT
Vapor temp. (°F)	150.0	
Subcooling (°F)	5.0	REFRIGERANT
Suction temp. (°F)	45.0	
Ref. mass flow (lb/h)	2247.4	REFRIGERANT
Ref. velocity (ft/s)	12.21	
Ref. pressure drop (psi)	2.05	REFRIGERANT
Subcooler circ./face tubes	0 / 0	
Subc. capacity (MBH)	0.0	REFRIGERANT
Subc. leaving temp. (°F)	32.0	
Subc. pressure drop (psi)	0.00	REFRIGERANT
Coils per bank	1	
Coil type	3/8	REFRIGERANT
Fin height (in)	40.0	
Fin length (in)	80.0	REFRIGERANT
Face area (ft²)	22.22	
Rows	4	REFRIGERANT
Fin spacing (fins/in)	12	
Fin material	Al	REFRIGERANT
Fin type	Sine	
Fin thickness (in)	0.006	REFRIGERANT
Tube wall thickness (in)	0.016	
Tube interior	Smooth	REFRIGERANT
Number of feeds	20	
Supply conn. size (in)	1.625	REFRIGERANT
Return conn. size (in)	1.625	
Weight (lb)	222	REFRIGERANT

COIL DETAILS





→ CONDENSER CAPACITY

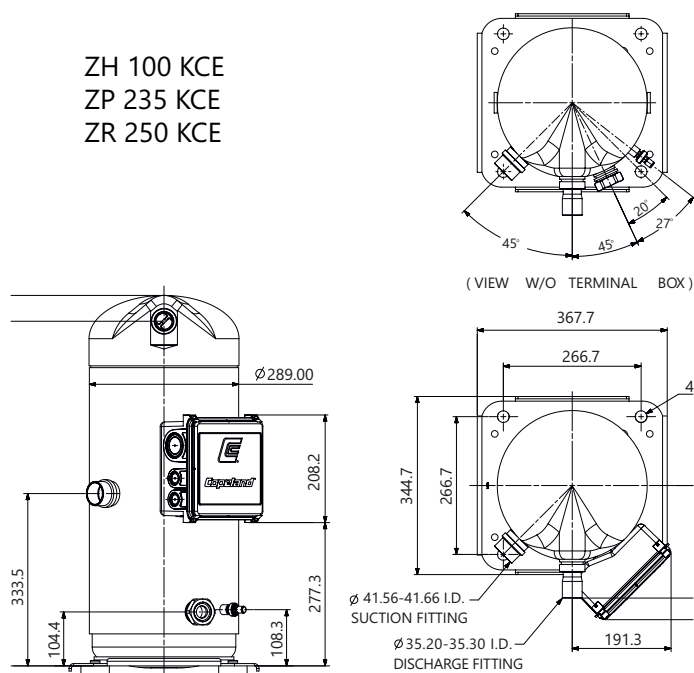


R22

High Side Properties:	
Condensing Temperature	45.00 °C
Condensing Abs. Pressure	17.29 bar
Dew Point	45.00 °C
Bubble Point	45.00 °C
Saturated vapour enthalpy	717.68 kJ/kg
Specific volume of saturated vapour	13.33 dm³/kg
Liquid Temperature	40.00 °C
Liquid enthalpy	549.54 kJ/kg

Low Side Properties	
Evaporating Temperature	3.00 °C
Evaporating Abs. Pressure	548 bar
Dew Point	3.00 °C
Bubble Point	3.00 °C
With vapour at	13.00 °C
Specific volume	45.27 dm³/kg
Enthalpy	713.99 kJ/kg

ZH 100 KCE
ZP 235 KCE
ZR 250 KCE



Air Cooled Chiller

Model: HEAVY - Scroll - R22

Capacity: 40-200 TON (Nominal)

Compressor : Scroll : Copeland, Danfoss

Condenser : Air Cooled , Fan : Zilabeg ,EBM

Expansion Valve : Thermostatic , Electronic

Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
High & Low, KP, Anti Freeze, Thermostat



MODEL: HEAVY - SCROLL-22			R22-407C	HSC22040	HSC22050	HSC22060	HSC22070	HSC22080	HSC22100
CAPACITY	NOMINAL	TON	40	50	60	70	80	100	
		KW	114	142	176	200	228	286	
	ACTUAL	TON	32	40	50	57	65	81	
COMPRESSOR	TYPE	SCROLL	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-	2	2	2	6	4	4	
	BRAND	-	Copeland	Copeland	Copeland	Copeland	Copeland	Copeland	
	MODEL	ZR	ZR250	ZR310	ZR380	ZR144	ZR250	ZR310	
	REFRIGERANT	TYPE	R22-R407C	R22-R407C	R22-R407C	R22-R407C	R22-R407C	R22-R407C	
	Max Current	A	56	72	86	100	112	140	
CONDENSER		COP	4	4	4.2	4.2	4.1	4	
	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	
		QTY	4	4	4	4	6	6	
		ROW-FPI	3-12	3-12	4-12	4-12	4-12	4-12	
	FAN	QTY	4	4	4	4	6	6	
		MODEL	71	71	80	80	80	80	
EVAPORATOR		RPM	900	900	900	900	900	900	
	TYPE	SHELL TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	
	Water VOLUME	LIT	100	100	110	150	160	180	
UNIT DIMENSION	FLOW RATE	GPM	78	97	120	136	156	195	
	L	cm	240	240	240	240	360	360	
	W	cm	220	220	220	220	240	240	
CONNECTION	H	cm	260	260	260	260	260	260	
	INLET / OUTLET	IN	3	3	3	3	4	4	
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380	380	
	MAX POWER INPUT	KW	37	45	52	63	74	90	
	MAX CURRENT	A	60	76	90	110	125	150	

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSC22040	29	114	78	31	111	76	32	109	74
	HSC22050	36	142	97	38	138	94	40	135	92
	HSC22060	44	176	120	47	171	117	49	168	114
	HSC22070	51	200	136	54	194	132	56	189	129
	HSC22080	58	228	156	62	222	151	64	218	148
	HSC22100	73	286	195	77	278	189	81	272	186

Note:

1- Nominal conditions

Evaporator IN/OUT Water Temperature : 12-7 C

Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft

KW/3.5=TON

Air Cooled Chiller

Model: HEAVY - Scroll - R22

Capacity: 40-200 TON (Nominal)

Compressor : Scroll : Copeland, Danfoss

Condenser : Air Cooled , Fan : Zilabeg ,EBM

Expansion Valve : Thermostatic , Electronic

Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
Accumulator, High & Low, KP, Anti Freez, Thermostat



MODEL: HEAVY - SCROLL-22			R22-407C	HSC22125	HSC22150	HSC22160	HSC22180	HSC22200
CAPACITY	NOMINAL	TON		125	150	160	180	200
	ACTUAL	KW		356.0	427.2	456.8	528.0	595.0
		TON		101	121	130	150	170
COMPRESSOR	TYPE	SCROLL		2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-		5	6	8	6	8
	BRAND	-		Copeland	Copeland	Copeland	Copeland	Copeland
	MODEL	ZR		ZR310	ZR310	ZR250	ZR380	ZR310
	REFRIGERANT	TYPE		R22-R407C	R22-R407C	R22-R407C	R22-R407C	R22-R407C
	Max Current	A		180	216	224	258	280
	COP	-		4	4.2	4.2	4	4.1
CONDENSER	COIL	TYPE		FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY		8	8	12	12	12
		ROW-FPI		4-12	4-12	4-12	4-12	4-12
	FAN	QTY		8	8	12	12	12
		MODEL		80	80	80	80	80
		RPM		900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE		SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT		200	220	260	320	360
	FLOW RATE	GPM		243	292	312	360	406
UNIT DIMENSION	L	cm		480	480	700	700	700
	W	cm		240	240	240	240	240
	H	cm		260	260	260	260	260
CONNECTION	INLET / OUTLET	IN		5	5	5	6	6
ELECTRICAL DATA	VOLTAGE	V		380	380	380	380	380
	MAX POWER INPUT	KW		115	135	145	165	165
	MAX CURRENT	A		200	230	240	280	300

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSC22125	90	356	243	96	345	235	100	337	230
	HSC22150	108	427	292	115	414	283	120	404	276
	HSC22160	116	457	312	124	444	303	129	435	297
	HSC22180	133	528	360	140	513	350	146	503	343
	HSC22200	144	595	406	154	572	390	160	560	382

Note:

1- Nominal conditions

Evaporator IN/OUT Water Temperature : 12-7 C

Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft

KW/3.5=TON







Air Cooled Chiller

Model: HEAVY - Scroll - R134a

Capacity: 40-200 TON (Nominal)

Compressor : Scroll : Copeland, Danfoss

Condenser : Air Cooled , Fan : Zilabeg ,EBM

Expansion Valve : Thermostatic , Electronic

Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Solenoid Valve
High & Low, KP, Anti Freeze, Thermostat



MODEL: HEAVY - SCROLL-R134a			R134a	HSC34040	HSC34050	HSC34060	HSC34070	HSC34080	HSC34100
CAPACITY	NOMINAL	TON		40	50	60	70	80	100
		KW		78	97	120	142	156	194
	ACTUAL	TON		22	28	34	41	45	55
COMPRESSOR	TYPE	SCROLL		2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-		2	2	2	6	4	4
	BRAND	-		Copeland	Copeland	Copeland	Copeland	Copeland	Copeland
	MODEL	ZR		ZR250	ZR310	ZR380	ZR144	ZR250	ZR310
	REFRIGERANT	TYPE		R134a	R134a	R134a	R134a	R134a	R134a
	Max Current	A		44	72	86	72	112	140
	COP	-		3.8	3.9	4	4.2	3.8	3.9
CONDENSER	COIL	TYPE		FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY		4	4	4	4	6	6
		ROW-FPI		3-12	3-12	4-12	4-12	4-12	4-12
	FAN	QTY		4	4	4	4	6	6
		MODEL		71	71	80	80	80	80
		RPM		900	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE		SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT		100	100	110	150	160	180
	FLOW RATE	GPM		53	66	82	96	106	132
UNIT DIMENSION	L	cm		240	240	240	240	360	360
	W	cm		220	220	220	220	240	240
	H	cm		260	260	260	260	260	260
CONNECTION	INLET / OUTLET	IN		3	3	3	3	4	4
ELECTRICAL DATA	VOLTAGE	V		380	380	380	380	380	380
	MAX POWER INPUT	KW		37	45	52	63	74	90
	MAX CURRENT	A		60	76	90	110	125	150

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSC34040	20	78	53	21	75	51	22	73	50
	HSC34050	25	97	66	26	94	64	27	91	62
	HSC34060	31	120	82	32	116	79	33	114	78
	HSC34070	34	141	96	36	136	93	38	133	91
	HSC34080	40	155	106	43	150	103	44	147	100
	HSC34100	50	194	132	53	187	128	55	183	125

Note:

1- Nominal conditions

Evaporator IN/OUT Water Temperature : 12-7 C

Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft

KW/3.5=TON

Air Cooled Chiller

Model: HEAVY - Scroll - R134a

Capacity: 40-200 TON (Nominal)
 Compressor : Scroll : Copeland, Danfoss
 Condenser : Air Cooled , Fan : Zilabeg ,EBM
 Expansion Valve : Thermostatic , Electronic
 Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
 High & Low, KP, Anti Freez, Thermostat



MODEL : HEAVY-SCROLL-R134a			R134a	HSC34125	HSC34150	HSC22160	HSC34180	HSC34200
CAPACITY	NOMINAL	TON		125	150	160	180	200
		KW		240.0	291.0	312.0	360.0	388.0
	ACTUAL	TON		69	83	89	103	111
COMPRESSOR	TYPE	SCROLL		2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-		4	6	8	6	8
	BRAND	-		Copeland	Copeland	Copeland	Copeland	Copeland
	MODEL	ZR		ZR380	ZR310	ZR250	ZR380	ZR310
	REFRIGERANT	TYPE		R134a	R134a	R134a	R134a	R134a
	Max Current	A		180	216	224	258	280
	COP	-		4	3/9	4	4	3/9
CONDENSER	COIL	TYPE		FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY		8	8	12	12	12
		ROW-FPI		4-12	4-12	4-12	4-12	4-12
	FAN	QTY		8	8	12	12	12
		MODEL		80	80	80	80	80
		RPM		900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE		SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT		200	220	260	320	360
	FLOW RATE	GPM		164	199	212	246	265
UNIT DIMENSION	L	cm		480	480	700	700	700
	W	cm		240	240	240	240	240
	H	cm		260	260	260	260	260
CONNECTION	INLET / OUTLET	IN		5	5	5	6	6
ELECTRICAL DATA	VOLTAGE	V		380	380	380	380	380
	MAX POWER INPUT	KW		115	135	145	165	165
	MAX CURRENT	A		200	230	240	280	300

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSC34125	62	240	164	64	232	158	66	228	156
	HSC34150	75	291	199	79	281	192	82	274	187
	HSC34160	80	310	212	86	301	205	89	294	200
	HSC34180	93	360	246	96	348	237	99	342	233
	HSC34200	100	388	265	105	374	255	110	366	249

Note:

1- Nominal conditions Evaporator IN/OUT Water Temperature : 12-7 C
 Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft KW/3.5=TON



Air Cooled Chiller

Model: HEAVY - Scroll - R410A

Capacity: 40-240 TON (Nominal)

Compressor : Scroll : Copeland, Danfoss

Condenser : Air Cooled , Fan : Zilabeg ,EBM

Expansion Valve : Thermostatic , Electronic

Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
High & Low, KP, Anti Freeze, Thermostat



MODEL : HEAVY-SCROLL-R410A		R410A	HSC41040	HSC41050	HSC41060	HSC41080	HSC41100
CAPACITY	NOMINAL	TON	40	50	60	80	100
	ACTUAL	KW	108	141	175	224	282
		TON	31	40	50	64	81
COMPRESSOR	TYPE	SCROLL	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-	2	4	2	2	8
	BRAND	-	Copeland	Copeland	Copeland	Copeland	Copeland
	MODEL	ZR	ZP236	ZP154	ZP385	ZP485	ZP154
	REFRIGERANT	TYPE	R410A	R410A	R410A	R410A	R410A
	Max Current	A	56	72	86	112	140
	COP	-	4	3/8	3/8	3/8	3/8
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	4	4	4	6	6
		ROW-FPI	3-12	3-12	4-12	4-12	4-12
	FAN	QTY	4	4	4	6	6
		MODEL	71	71	80	80	80
		RPM	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT	100	100	110	150	180
	FLOW RATE	GPM	74	96	119	153	192
UNIT DIMENSION	L	cm	240	240	240	360	360
	W	cm	220	220	220	240	240
	H	cm	260	260	260	260	260
CONNECTION	INLET / OUTLET	IN	3	3	3	4	4
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380
	MAX POWER INPUT	KW	37	45	52	74	90
	MAX CURRENT	A	60	76	90	125	150

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSC41040	27	108	74	29	103	70	31	101	69
	HSC41050	38	141	96	40	135	92	43	131	89
	HSC41060	46	175	119	49	168	115	51	164	112
	HSC41080	59	224	153	62	215	147	65	210	143
	HSC41100	76	282	192	80	270	184	86	262	179

Note:

1- Nominal conditions

Evaporator IN/OUT Water Temperature : 12-7 C

Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft

KW/3.5=TON

Air Cooled Chiller

Model: HEAVY - Scroll - R410A

Capacity: 40-240 TON (Nominal)
 Compressor : Scroll : Copeland, Danfoss
 Condenser : Air Cooled , Fan : Zilabeg ,EBM
 Expansion Valve : Thermostatic , Electronic
 Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
 High & Low, KP, Anti Freeze, Thermostat



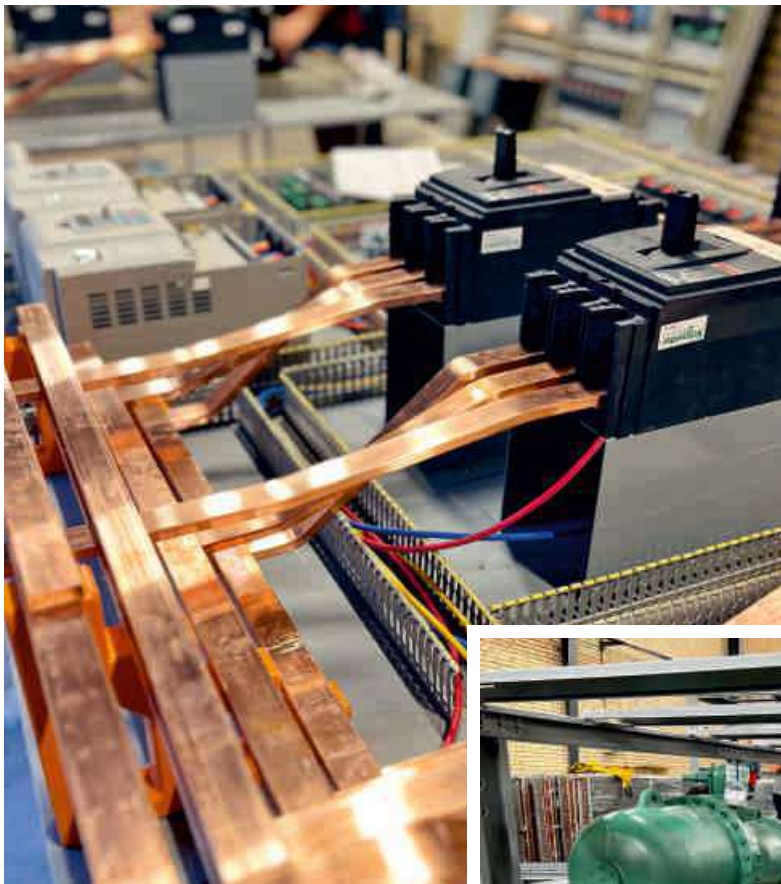
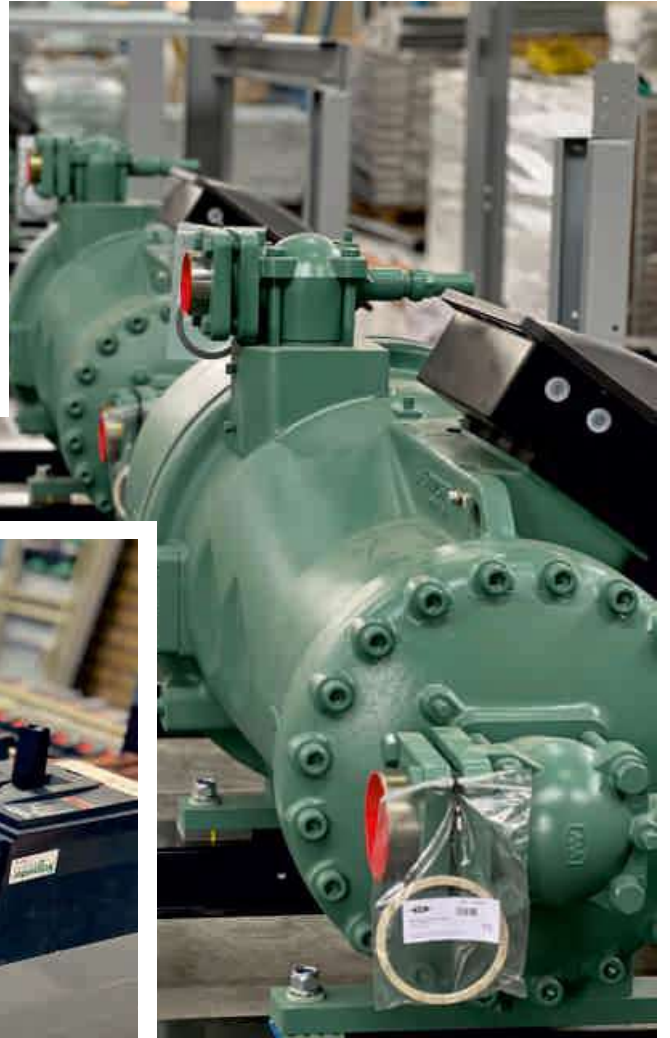
MODEL : HEAVY-SCROLL-R410A			R410A	HSC41120	HSC41160	HSC41180	HSC41240
CAPACITY	NOMINAL	TON		120	160	180	240
	ACTUAL	KW		350	448	525	672
		TON		100	128	150	192
COMPRESSOR	TYPE	SCROLL		2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-		4	4	6	6
	BRAND	-		Copeland	Copeland	Copeland	Copeland
	MODEL	ZR		ZP385	ZP485	ZP385	ZP485
	REFRIGERANT	TYPE		R410A	R410A	R410A	R410A
	Max Current	A		180	216	224	258
	COP	-		3.8	3.8	3.8	3.8
CONDENSER	COIL	TYPE		FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY		8	12	12	12
		ROW-FPI		4-12	4-12	4-12	4-12
	FAN	QTY		8	12	12	12
		MODEL		80	80	80	80
		RPM		900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE		SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT		200	220	260	360
	FLOW RATE	GPM		239	306	358	459
UNIT DIMENSION	L	cm		480	480	700	700
	W	cm		240	240	240	240
	H	cm		260	260	260	260
CONNECTION	INLET / OUTLET	IN		5	5	5	6
ELECTRICAL DATA	VOLTAGE	V		380	380	380	380
	MAX POWER INPUT	KW		115	135	145	165
	MAX CURRENT	A		200	230	240	280

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSC41120	92	350	239	98	336	229	102	328	224
	HSC41160	118	448	306	124	430	293	135	420	287
	HSC41180	138	525	358	147	504	344	153	492	336
	HSC41240	177	672	459	186	645	440	195	630	430

Note:

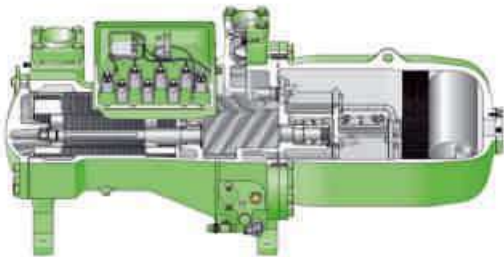
1- Nominal conditions Evaporator IN/OUT Water Temperature : 12-7 C
 Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft KW/3.5=TON

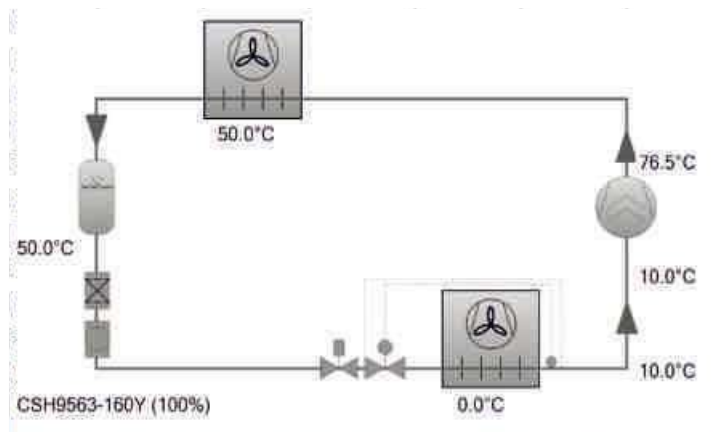




AIR COOLED CHILLER
MODEL : HEAVY
COMPRESSOR : SCREW



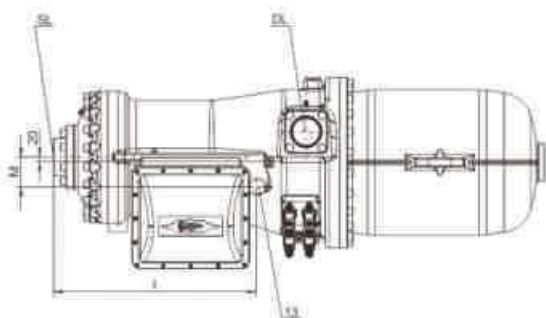
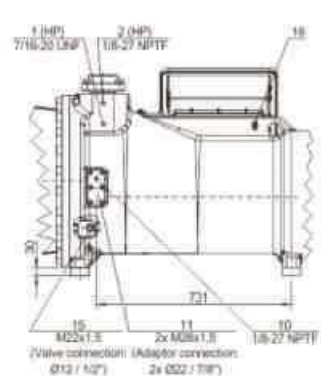
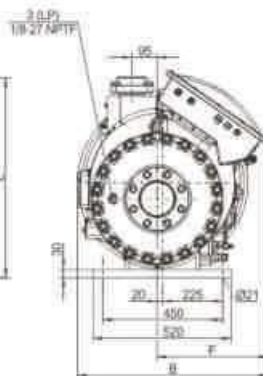
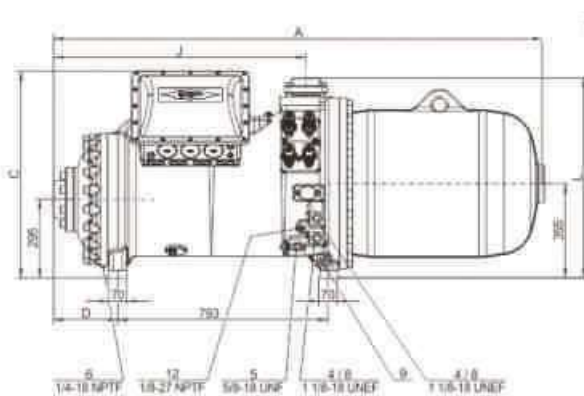
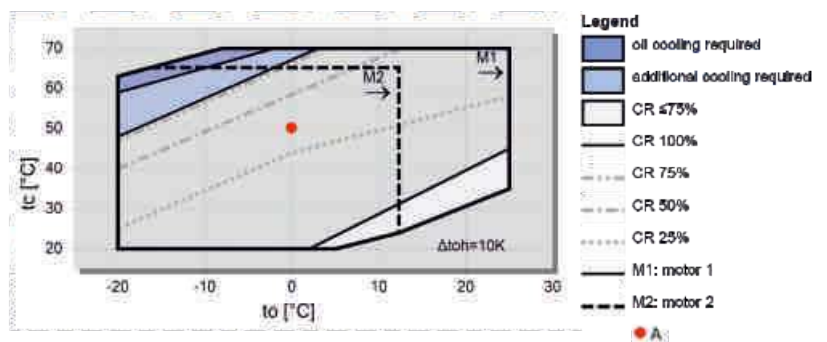




Compressor	CSH9563-160Y-40D
Capacity steps	100%
Cooling capacity	289 kW
Cooling capacity *	289 kW
Evaporator capacity	289 kW
Power input	101.9 kW
Current (400V)	168.4 A
Voltage range	380-415V
Condenser capacity	391 kW
COP/EER	2.83
COP/EER *	2.83
Mass flow LP	7696 kg/h
Mass flow HP	7696 kg/h
Operating mode	Standard
Liquid temp.	50.0 °C
Oil volume flow	1.48 m³/h
Cooling method	—
Discharge gas temp. w/o cooling	76.5 °C

ACTUAL CAPACITY

Application Limits Standard CSH9563-160



	A	B	C	D	E	F	G	H	I	J	K	L	M
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
CSH9553...CSH9573	1824	717	776	224	417	748	830	744	108				
CSH9583-210V, CSH9593-240V	1842	717	776	242	417	764	848	751	113				
CSH9583-280V(Y), CSH9593-300V(Y)	1869	717	776	269	417	791	875	751	113				
CSH95103-280V	1855	731	796	269	431	791	875	758	113				
CSH95103-320V(Y), CSH95113-320V	1875	731	796	289	431	810	895	758	113				

Air Cooled Chiller

Model: HEAVY - Screw - R22

Capacity: 60-560 TON (Nominal)
 Compressor : Screw : Bitzer , Hanbel
 Condenser : Air Cooled , Fan : EBM
 Expansion Valve : Thermostatic , Electronic
 Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
 High & Low, KP, Anti Freez, Thermostat



MODEL : HEAVY - Screw -R22			R22-407C	HSW22060	HSW22070	HSW22080	HSW22090	HSW22110	HSW22125
CAPACITY	NOMINAL	TON	60	70	80	90	110	125	
	ACTUAL	KW	147.0	172.0	198.0	240.0	286.0	326.0	
		TON	42	49	57	69	82	93	
COMPRESSOR	TYPE	SCREW	1 Circuit	1 Circuit	1 Circuit	1 Circuit	1 Circuit	1 Circuit	
	QTY	-	1	1	1	1	1	1	
	BRAND	-	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	
	MODEL	C.S.H	6563-60	7553-70	7563-80	7573-90	8553-110	8563-125	
	REFRIGERANT	TYPE	R22-R407C	R22-R407C	R22-R407C	R22-R407C	R22-R407C	R22-R407C	
	Max Current	A	80	91	105	115	150	163	
CONDENSER	COIL	COP	-	3.5	3.4	3.5	3.7	3.6	3.6
		TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	
		QTY	4	4	6	6	6	6	
	FAN	ROW-FPI	4-12	4-12	4-12	4-12	4-12	4-12	
		QTY	4	4	6	6	6	6	
		MODEL	80	80	80	80	80	80	
EVAPORATOR	TYPE	RPM	900	900	900	900	900	900	
		SHELL TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	
		LIT	95	90	100	100	100	110	
UNIT DIMENSION	Water VOLUME	GPM	100	117	135	164	195	222	
		L	260	260	380	380	380	380	
		W	240	240	240	240	240	240	
CONNECTION	INLET / OUTLET	H	260	260	260	260	260	260	
		IN	3	3	3	4	4	4	
		V	380	380	380	380	380	380	
ELECTRICAL DATA	VOLTAGE	KW	60	70	75	80	90	100	
		A	100	110	120	135	170	185	
		MAX POWER INPUT							
		MAX CURRENT							

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSW22060	42	147	100	45	142	97	46	139	95
	HSW22070	50	172	117	53	165	113	55	160	109
	HSW22080	57	198	135	60	190	130	62	184	126
	HSW22090	65	240	164	69	230	157	72	223	152
	HSW22110	78	286	195	83	273	186	86	265	181
	HSW22125	90	326	222	95	312	213	98	302	206

Note:

1- Nominal conditions Evaporator IN/OUT Water Temperature : 12-7 C
 Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft KW/3.5=TON



Air Cooled Chiller

Model: HEAVY - Screw - R22

Capacity: 60-560 TON (Nominal)
 Compressor : Screw : Bitzer , Hanbel
 Condenser : Air Cooled , Fan : EBM
 Expansion Valve : Thermostatic , Electronic
 Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
 High & Low, KP, Anti Freeze, Thermostat



MODEL : HEAVY - Screw -R22			R22-407C	HSW22120	HSW22140	HSW22160	HSW22180	HSW22220	HSW22250
CAPACITY	NOMINAL	TON		120	140	160	180	220	250
		KW		294.0	344.0	396.0	480.0	572.0	652.0
	ACTUAL	TON		84	98	113	137	163	186
COMPRESSOR	TYPE	SCREW		2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-		2	2	2	2	2	2
	BRAND	-		Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	C.S.H		6563-60	7553-70	7563-80	7573-90	8553-110	8563-125
	REFRIGERANT	TYPE		R22-R407C	R22-R407C	R22-R407C	R22-R407C	R22-R407C	R22-R407C
	Max Current	A		160	182	210	230	300	326
CONDENSER		COP		3.5	3.4	3.5	3.7	3.6	3.6
	COIL	TYPE		FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY		8	8	8	12	12	12
		ROW-FPI		4-12	4-12	4-12	4-12	4-12	4-12
	FAN	QTY		8	8	8	12	12	12
		MODEL		80	80	80	80	80	80
EVAPORATOR		RPM		900	900	900	900	900	900
	TYPE	SHELL TUBE		SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT		120	150	160	180	200	260
UNIT DIMENSION	FLOW RATE	GPM		201	235	270	328	390	445
	L	cm		480	480	480	700	700	700
	W	cm		240	240	240	240	240	240
	H	cm		260	260	260	260	260	260
CONNECTION	INLET / OUTLET	IN		5	5	6	6	6	6
ELECTRICAL DATA	VOLTAGE	V		380	380	380	380	380	380
	MAX POWER INPUT	KW		100	120	140	155	170	195
	MAX CURRENT	A		200	220	240	270	340	370

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input	Cooling Capacity	GPM
Air Cooled Chiller	HSW22120	84	294	201	89	284	194	92	278	190
	HSW22140	101	344	235	106	330	225	110	320	218
	HSW22160	114	396	270	120	380	259	124	368	251
	HSW22180	130	480	328	138	460	314	144	446	304
	HSW22220	156	572	390	166	546	373	172	530	362
	HSW22250	180	652	445	190	624	426	196	604	412

Note:

1- Nominal conditions Evaporator IN/OUT Water Temperature : 12-7 C
 Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft KW/3.5=TON



Air Cooled Chiller

Model: HEAVY - Screw - R22

Capacity: 60-560 TON (Nominal)
 Compressor : Screw : Bitzer , Hanbel
 Condenser : Air Cooled , Fan : EBM
 Expansion Valve : Thermostatic , Electronic
 Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
 High & Low, KP, Anti Freez, Thermostat



MODEL : HEAVY - Screw -R22			R22-407C	HSW22280	HSW22320	HSW22360	HSW22420	HSW22480	HSW22560
CAPACITY	NOMINAL	TON		280	320	360	420	480	560
		KW		770.0	864.0	1016.0	1182.0	1356.0	1552.0
	ACTUAL	TON		220	247	290	338	387	443
COMPRESSOR	TYPE	SCREW		2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-		2	2	2	2	2	2
	BRAND	-		Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	C.S.H		8573-140	8583-160	9553-180	9563-210	9573-240	9583-280
	REFRIGERANT	TYPE		R22-R407C	R22-R407C	R22-R407C	R22-R407C	R22-R407C	R22-R407C
	Max Current	A		390	420	492	546	608	700
CONDENSER		COP		3.5	3.7	3.8	3.9	3.9	3.9
	COIL	TYPE		FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY		16	16	16	20	20	24
		ROW-FPI		4-12	4-12	4-12	4-12	4-12	4-12
	FAN	QTY		16	16	16	20	20	24
		MODEL		80	80	80	80	80	80
EVAPORATOR		RPM		900	900	900	900	900	900
	TYPE	SHELL TUBE		SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT		320	360	400	470	470	500
UNIT DIMENSION	FLOW RATE	GPM		525	590	693	807	925	1059
	L	cm		920	920	920	1150	1350	1350
	W	cm		240	240	240	240	240	240
	H	cm		260	260	260	260	260	260
CONNECTION	INLET / OUTLET	IN		5	5	6	6	6	6
ELECTRICAL DATA	VOLTAGE	V		380	380	380	380	380	380
	MAX POWER INPUT	KW		237	255	292	332	372	428
	MAX CURRENT	A		468	504	590.4	655.2	729.6	840

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSW22280	220	770	525	230	742	506	237	720	491
	HSW22320	234	864	590	246	832	568	255	808	551
	HSW22360	264	1016	693	280	978	667	292	952	650
	HSW22420	308	1182	807	320	1140	778	332	1110	757
	HSW22480	344	1356	925	360	1306	891	372	1272	868
	HSW22560	394	1552	1059	414	1502	1025	428	1470	1003

Note:

1- Nominal conditions Evaporator IN/OUT Water Temperature : 12-7 C
 Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft KW/3.5=TON





Air Cooled Chiller

Model: HEAVY - Screw - R134a

Capacity: 60-560 TON (Nominal)

Compressor : Screw : Bitzer , Hanbel

Condenser : Air Cooled , Fan : EBM

Expansion Valve : Thermostatic , Electronic

Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
High & Low, KP, Anti Freez, Thermostat



MODEL : HEAVY - Screw -R134a			R134a	HSW34060	HSW34070	HSW34080	HSW34090	HSW34110	HSW34125
CAPACITY	NOMINAL	TON	60	70	80	90	110	125	
	ACTUAL	KW	122.0	144.0	167.0	190.0	238.0	262.0	
		TON	35	41	48	54	68	75	
COMPRESSOR	TYPE	SCREW	1 Circuit	1 Circuit	1 Circuit	1 Circuit	1 Circuit	1 Circuit	
	QTY	-	1	1	1	1	1	1	
	BRAND	-	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	
	MODEL	C.S.H	6593-60Y	7573-70Y	7583-80Y	7593-90Y	8573-110Y	8583-125Y	
	REFRIGERANT	TYPE	R134a	R134a	R134a	R134a	R134a	R134a	
	Max Current	A	80	91	105	115	150	163	
	COP	-	3.5	3.4	3.5	3.7	3.6	3.6	
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	
		QTY	4	4	6	6	6	6	
		ROW-FPI	4-12	4-12	4-12	4-12	4-12	4-12	
	FAN	QTY	4	4	6	6	6	6	
		MODEL	80	80	80	80	80	80	
		RPM	900	900	900	900	900	900	
EVAPORATOR	TYPE	SHELL TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	
	Water VOLUME	LIT	90	90	100	100	100	110	
	FLOW RATE	GPM	83	98	114	130	162	179	
UNIT DIMENSION	L	cm	260	260	380	380	380	380	
	W	cm	240	240	240	240	240	240	
	H	cm	260	260	260	260	260	260	
CONNECTION	INLET / OUTLET	IN	3	3	3	4	4	4	
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380	380	
	MAX POWER INPUT	KW	60	70	75	80	90	100	
	MAX CURRENT	A	100	110	120	135	170	185	

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSW34060	32	122	83	34	116	79	35	113	77
	HSW34070	40	144	98	42	137	93	44	132	90
	HSW34080	45	167	114	48	160	109	50	155	106
	HSW34090	51	190	130	54	182	124	56	176	120
	HSW34110	62	238	162	66	227	155	69	220	150
	HSW34125	70	262	179	75	251	171	78	244	167

Note:

1- Nominal conditions

Evaporator IN/OUT Water Temperature : 12-7 C

Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft

KW/3.5=TON



Air Cooled Chiller

Model: HEAVY - Screw - R134a

Capacity: 60-560 TON (Nominal)

Compressor : Screw : Bitzer , Hanbel

Condenser : Air Cooled , Fan : EBM

Expansion Valve : Thermostatic , Electronic

Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Solenoid Valve
High & Low, KP, Anti Freeze, Thermostat



MODEL : HEAVY - Screw -R134a			R134a	HSW34120	HSW34140	HSW34160	HSW34180	HSW34220	HSW34250
CAPACITY	NOMINAL	TON		120	140	160	180	220	250
		KW		244	288	334	380	476	524
	ACTUAL	TON		70	82	95	109	136	150
COMPRESSOR	TYPE	SCREW		2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-		2	2	2	2	2	2
	BRAND	-		Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	C.S.H		6593-60Y	7573-70Y	7583-80Y	7593-90Y	8573-110Y	8583-125Y
	REFRIGERANT	TYPE		R134a	R134a	R134a	R134a	R134a	R134a
	Max Current	A		160	182	210	230	300	326
	COP	-		3.5	3.4	3.5	3.7	3.6	3.6
CONDENSER	COIL	TYPE		FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY		8	8	8	12	12	12
		ROW-FPI		4-12	4-12	4-12	4-12	4-12	4-12
	FAN	QTY		8	8	8	12	12	12
		MODEL		80	80	80	80	80	80
		RPM		900	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE		SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT		120	150	160	180	200	260
	FLOW RATE	GPM		167	197	228	259	325	358
UNIT DIMENSION	L	cm		920	920	920	1150	1360	1360
	W	cm		240	240	240	240	240	240
	H	cm		260	260	260	260	260	260
CONNECTION	INLET / OUTLET	IN		5	5	6	6	6	6
ELECTRICAL DATA	VOLTAGE	V		380	380	380	380	380	380
	MAX POWER INPUT	KW		100	120	140	155	170	195
	MAX CURRENT	A		200	220	240	270	340	370

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSW34120	64	244	167	68	232	158	71	226	154
	HSW34140	80	288	197	84	274	187	87	264	180
	HSW34160	90	334	228	96	320	218	100	310	212
	HSW34180	102	380	259	108	364	248	112	352	240
	HSW34220	124	476	325	132	454	310	138	440	300
	HSW34250	140	524	358	149	502	343	156	488	333

Note:

1- Nominal conditions

Evaporator IN/OUT Water Temperature : 12-7 C

Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft

KW/3.5=TON



Air Cooled Chiller

Model: HEAVY - Screw - R134a

Capacity: 60-560 TON (Nominal)

Compressor : Screw : Bitzer , Hanbel

Condenser : Air Cooled , Fan : EBM

Expansion Valve : Thermostatic , Electronic

Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
High & Low, KP, Anti Freez, Thermostat



MODEL : HEAVY - Screw -R134a			R134a	HSW34280	HSW34320	HSW34360	HSW34420	HSW34480	HSW34560
CAPACITY	NOMINAL	TON		280	320	360	420	480	560
		KW		596.0	708.0	826.0	948.0	1076.0	1160.0
	ACTUAL	TON		170	202	236	271	307	331
COMPRESSOR	TYPE	SCREW		2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-		2	2	2	2	2	2
	BRAND	-		Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	C.S.H		8593-140Y	9563-160Y	9573-180Y	9583-210Y	9593-240Y	95103-280Y
	REFRIGERANT	TYPE		R134a	R134a	R134a	R134a	R134a	R134a
	Max Current	A		390	420	492	546	608	700
	COP	-		3.5	3.7	3.8	3.9	3.9	3.9
CONDENSER	COIL	TYPE		FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY		16	16	16	20	24	24
		ROW-FPI		4-12	4-12	4-12	4-12	4-12	4-12
	FAN	QTY		16	16	16	20	24	24
		MODEL		80	80	80	80	80	80
		RPM		900	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE		SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT		320	360	400	470	470	500
	FLOW RATE	GPM		407	483	564	647	734	792
UNIT DIMENSION	L	cm		920	920	920	1150	1150	1350
	W	cm		240	240	240	240	240	240
	H	cm		260	260	260	260	260	260
CONNECTION	INLET / OUTLET	IN		5	5	6	6	6	6
ELECTRICAL DATA	VOLTAGE	V		380	380	380	380	380	380
	MAX POWER INPUT	KW		237	255	292	332	372	428
	MAX CURRENT	A		468	504	590.4	655.2	729.6	840

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSW34280	160	596	407	170	572	390	177	554	378
	HSW34320	188	708	483	200	678	463	207	656	448
	HSW34360	211	826	564	222	790	539	231	768	524
	HSW34420	244	948	647	260	910	621	269	886	605
	HSW34480	276	1076	734	292	1034	706	304	1006	686
	HSW34560	316	1160	792	333	1114	760	345	1082	738

Note:

1- Nominal conditions

Evaporator IN/OUT Water Temperature : 12-7 C

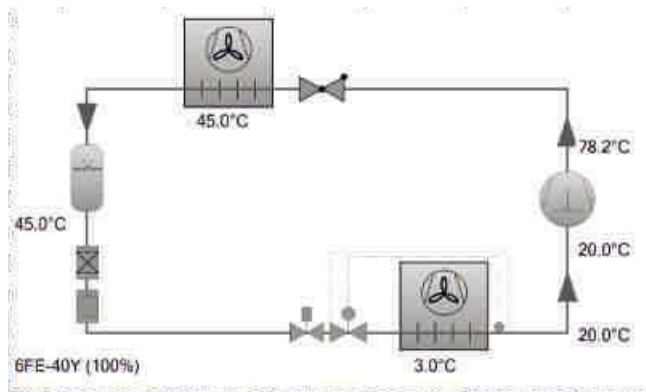
Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft

KW/3.5=TON



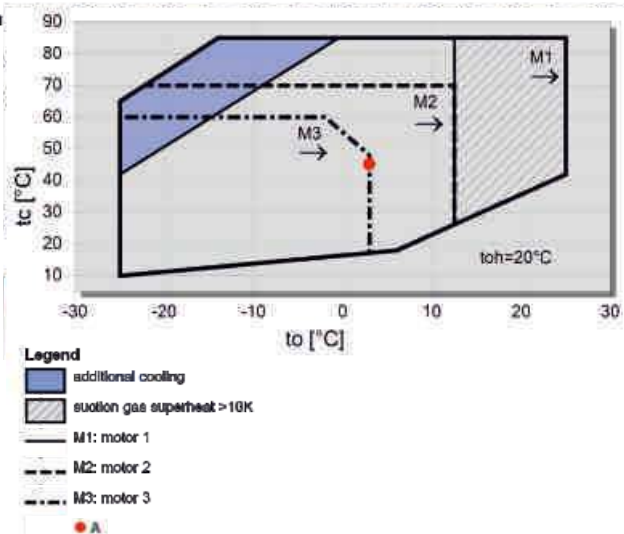
AIR COOLED CHILLER
MODEL : HEAVY
COMPRESSOR : SEMI HERMETIC





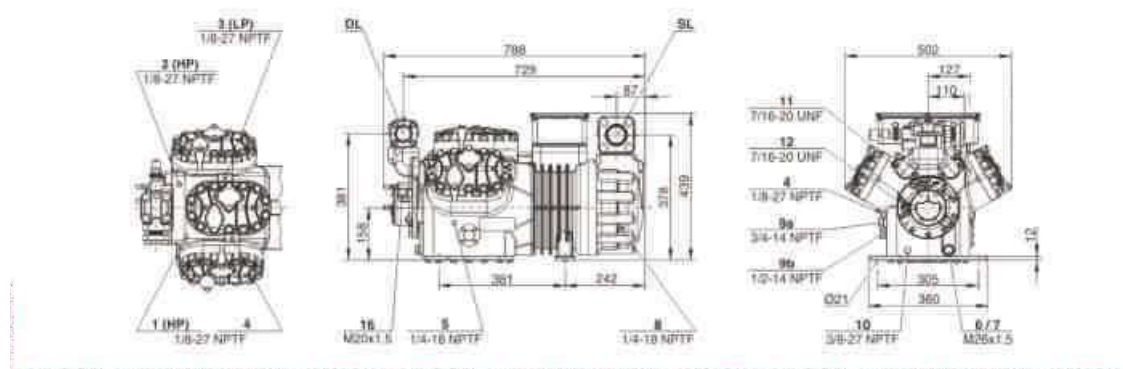
Compressor	6FE-40Y-40P
Capacity steps	100%
Cooling capacity	82.8 kW
Cooling capacity *	82.8 kW
Evaporator capacity	82.8 kW
Power Input	24.0 kW
Current (400V)	47.0 A
Voltage range	380-420V
Condenser capacity	106.7 kW
COP/EER	3.46
COP/EER *	3.46
Mass flow	1972 kg/h
Operating mode	Standard
Discharge gas temp. w/o cooling	78.2 °C

ACTUAL CAPACITY



Technical Data: 6FE-40Y

Dimensions and Connections



Air Cooled Chiller

Model: HEAVY - Semi Hermetic

Capacity: 30-140 TON (Nominal)
 Compressor : Semi Hermetic : Bitzer
 Condenser : Air Cooled , Fan : Zilabeg , EBM
 Expansion Valve : Thermostatic , Electronic
 Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Solenoid Valve
 High & Low, KP, Anti Freeze, Thermostat



MODEL: HEAVY - Semi Hermetic- R134			R134a	HSE34030	HSE34060	HSE34070	HSE34110	HSE34120	HSE34140
CAPACITY	NOMINAL	TON		30	60	70	110	120	140
		KW		55	121	128	192	239	256
	ACTUAL	TON		15.6	34.5	36.5	54.7	68.0	72.9
COMPRESSOR	TYPE	SEMI HERMETIC		2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-		2	2	2	3	2	4
	BRAND	-		Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	S.H		4PE-15Y-40P	4FE-28Y-40P	6HE-35Y-40P	6HE-35Y-40P	8FE-60Y-40P	6HE-35Y-40P
	REFRIGERANT	TYPE		R134a	R134a	R134a	R134a	R134a	R134a
	Max Current	A		30.4	65	70	100	125	140
	COP	-		3.5	3.6	3.8	3.8	3.9	3.8
CONDENSER	COIL	TYPE		FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY		2	4	4	6	8	8
		ROW-FPI		4-12	4-12	4-12	4-12	4-12	4-12
	FAN	QTY		2	4	4	6	8	8
		MODEL		80	80	80	80	80	80
		RPM		900	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE		SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE	SHELL&TUBE
	Water VOLUME	LIT		100	120	150	180	200	220
	FLOW RATE	GPM		37	83	87	131	163	175
UNIT DIMENSION	L	cm		250	240	240	360	480	480
	W	cm		135	220	220	220	220	220
	H	cm		240	260	260	260	260	260
CONNECTION	INLET / OUTLET	IN		2	3	3	3	4	4
ELECTRICAL DATA	VOLTAGE	V		380	380	380	380	380	380
	MAX POWER INPUT	KW		20	42	45	62	80	85
	MAX CURRENT	A		35	72	78	110	130	152

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSE34030	14	55	37	15	52	36	15	50	34
	HSE34060	33	121	83	35	116	79	35	113	77
	HSE34070	34	128	87	35	123	84	36	119	81
	HSE34110	50	192	131	52	184	125	53	178	122
	HSE34120	70	239	163	72	228	156	74	221	151
	HSE34140	67	256	175	70	245	167	71	238	162

Note:

1- Nominal conditions Evaporator IN/OUT Water Temperature : 12-7 C
 Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft KW/3.5=TON



Air Cooled Chiller

Model: HEAVY - Semi Hermetic - R22

Capacity: 20-160 TON (Nominal)
 Compressor : Semi Hermetic : Bitzer
 Condenser : Air Cooled , Fan : Zilabeg
 Expansion Valve : Thermostatic , Electronic
 Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
 High & Low, KP, Anti Freeze, Thermostat



MODEL : HEAVY-SEMI HERMETIC-R22			R22	HSE22020	HSE22040	HSE22050	HSE22060	HSE22075	HSE22080
CAPACITY	NOMINAL	TON		20	40	50	60	75	80
		KW		62.6	102.0	135.4	156.6	203.0	233.0
	ACTUAL	TON		17.8	29.0	38.5	44.5	57.7	66.2
COMPRESSOR	TYPE	SEMI HERMETIC		2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-		2	2	2	2	2	2
	BRAND	-		Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	S.H		4VE-10-40P	4NE-20-40P	4HE-25-40P	6GE-40-40P+ 4NE-20-40P	6FE-50-40P+ 4HE-25-40P	6GE-40-40P
	REFRIGERANT	TYPE		R22	R22	R22	R22	R22	R22
	Max Current	A		32	48	65.2	78	100	116.8
	COP	-		3.6	3.6	3.8	3.8	3.9	3.8
CONDENSER	COIL	TYPE		FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY		2	4	4	4	4	6
		ROW-FPI		4-12	4-12	4-12	4-12	4-12	4-12
	FAN	QTY		2	4	4	4	4	6
		MODEL		80	80	80	80	80	80
		RPM		900	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE		SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	Water VOLUME	LIT		50	100	100	110	150	160
	FLOW RATE	GPM		43	70	92	107	139	159
UNIT DIMENSION	L	cm		250	240	240	240	240	360
	W	cm		130	220	220	220	220	240
	H	cm		240	260	260	260	260	260
CONNECTION	INLET / OUTLET	IN		2	3	3	3	4	4
ELECTRICAL DATA	VOLTAGE	V		380	380	380	380	380	380
	MAX POWER INPUT	KW		22	35	45	55	68	78
	MAX CURRENT	A		38	52	72	88	115	125

Capacity Correction Of Air Cooled Chiller		Air Temperture Over Condenser Coil (T Ambient) F								
		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSE22020	16	63	43	17	60	41	17	59	40
	HSE22040	26	102	70	27	98	67	28	96	65
	HSE22050	35	135	92	37	130	89	38	127	87
	HSE22060	40	157	107	42	151	103	43	147	101
	HSE22075	53	203	139	56	196	134	57	191	130
	HSE22080	61	233	159	63	225	153	65	219	150

Note:

1- Nominal conditions Evaporator IN/OUT Water Temperature : 12-7 C
 Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft KW/3.5=TON



Air Cooled Chiller

Model: HEAVY - Semi Hermetic - R22

Capacity: 20-160 TON (Nominal)
 Compressor : Semi Hermetic : Bitzer
 Condenser : Air Cooled , Fan : Zilabeg
 Expansion Valve : Thermostatic , Electronic
 Evaporator : Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve
 High & Low, KP, Anti Freeze, Thermostat



MODEL : HEAVY-SEMI HERMETIC-R22			R22	HSE22100	HSE22120	HSE22140	HSE22160
CAPACITY	NOMINAL	TON		100	120	140	160
	ACTUAL	KW		280.2	328.1	376.0	466.0
		TON		79.7	93.3	106.9	132.5
COMPRESSOR	TYPE	SEMI HERMETIC		2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-		2	2	2	4
	BRAND	-		Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	S.H		6FE-50-40P	8FE-70-40 P+ 6FE-50-40 P	8FE-70-40P	6GE-40-40P
	REFRIGERANT	TYPE		R22	R22	R22	R22
	Max Current	A		156	188	220	168
	COP	-		3.6	3.8	3.8	3.8
CONDENSER	COIL	TYPE		FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY		6	8	8	12
		ROW-FPI		4-12	4-12	4-12	4-12
	FAN	QTY		6	8	8	12
		MODEL		80	80	80	80
		RPM		900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE		SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	Water VOLUME	LIT		180	200	220	260
	FLOW RATE	GPM		191	224	257	318
UNIT DIMENSION	L	cm		360	480	480	700
	W	cm		240	240	240	240
	H	cm		260	260	260	260
CONNECTION	INLET / OUTLET	IN		4	5	5	5
ELECTRICAL DATA	VOLTAGE	V		380	380	380	380
	MAX POWER INPUT	KW		90	115	125	140
	MAX CURRENT	A		168	200	230	180

Air Temperture Over Condenser Coil (T Ambient) F										
Capacity Correction Of Air Cooled Chiller		95 (35C)			100 (38C)			105 (40C)		
		Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM	Power Input (KW)	Cooling Capacity (KW)	GPM
Air Cooled Chiller	HSE22100	74	280	191	77	270	185	79	264	180
	HSE22120	93	328	224	97	316	216	100	308	210
	HSE22140	113	376	257	117	362	247	121	353	241
	HSE22160	121	466	318	127	449	307	130	438	299

Note:

1- Nominal conditions Evaporator IN/OUT Water Temperature : 12-7 C
 Outdoor Air Temperature : 35C Subcooling : 5 , Superheat : 10 , Altitude : 3800 ft KW/3.5=TON





AIR HANDLING UNIT



Air Handling Unit

Model: Standard AHU, Hygienic

Capacity: 2000 -50000 CFM

Structure: Aluminum Profile

Body: 2 Layer Steel + Electro Static Color

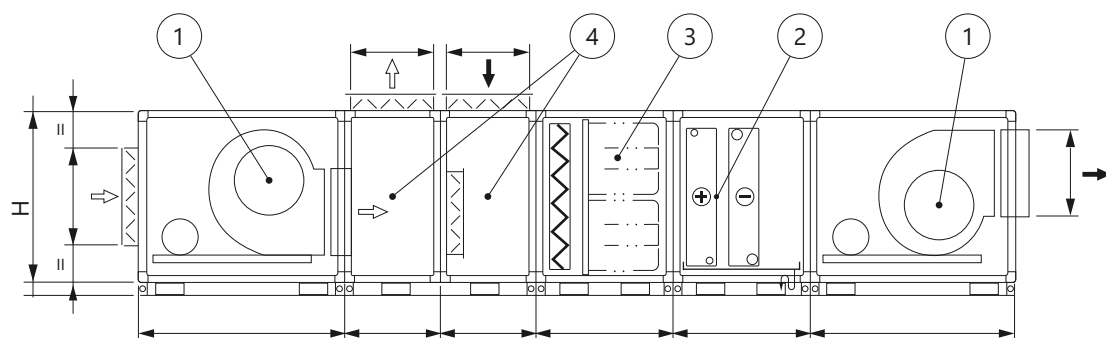
Insulation: 1-1.5 inch by design

Coil: Hot Water + Chilled Water

Fan & Motor: Forward, Backward, Plugged Fan

Filter: Aluminum, Bagged, Plated, Hepa

Damper: Aluminum



1- Fan Section

- Return Fan
- Supply Fan

- Forward
- Backward
- Plugged

2- Coil Section

- Hot Water
- Chilled Water

3- Filter Section

- Aluminum
- Bagged
- Plated
- Hepa
- Pressure Sensor

4- Mixing Box

- Fresh Air
- Return Air
- Damper
- Pressure Sensor

Packaged Unit

Model: Standard AHU, Hygienic

Capacity: 5-200 TON

Compressor: Scroll, Screw, Semi hermetic

Condenser: Air Cooled

Expansion Valve: Electronic, Thermostatic

Evaporator: Fin & Tube (DX Coil)

Controller: Thermostatic, Electronic

Coil: Hot Water

Fan & Motor: Forward, Backward, Plugged Fan

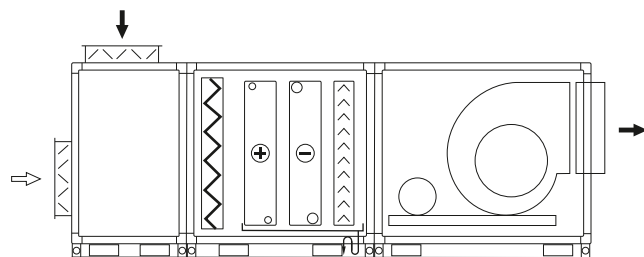
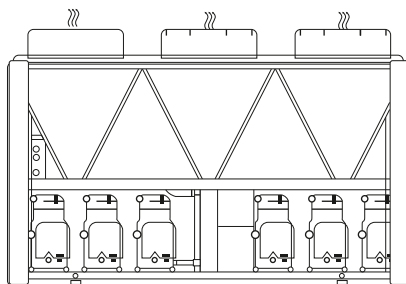
Filter: Aluminum, Bagged, Plated, Hepa

Damper: Aluminum

Structure: Aluminum Profile

Body: 2 Layer Steel + Electro Static Color

Insulation: 1-1.5 inch by design



Fan

- Return Fan
- Supply Fan
- Forward
- Backward
- Plugged

Coil

- Condenser
- Hot Water
- DX Coil

Filter Section

- Aluminum
- Bagged
- Plated
- Hepa
- Pressure Sensor

Mixing Box

- Fresh Air
- Return Air
- Damper
- Pressure Sensor

Liquid Line

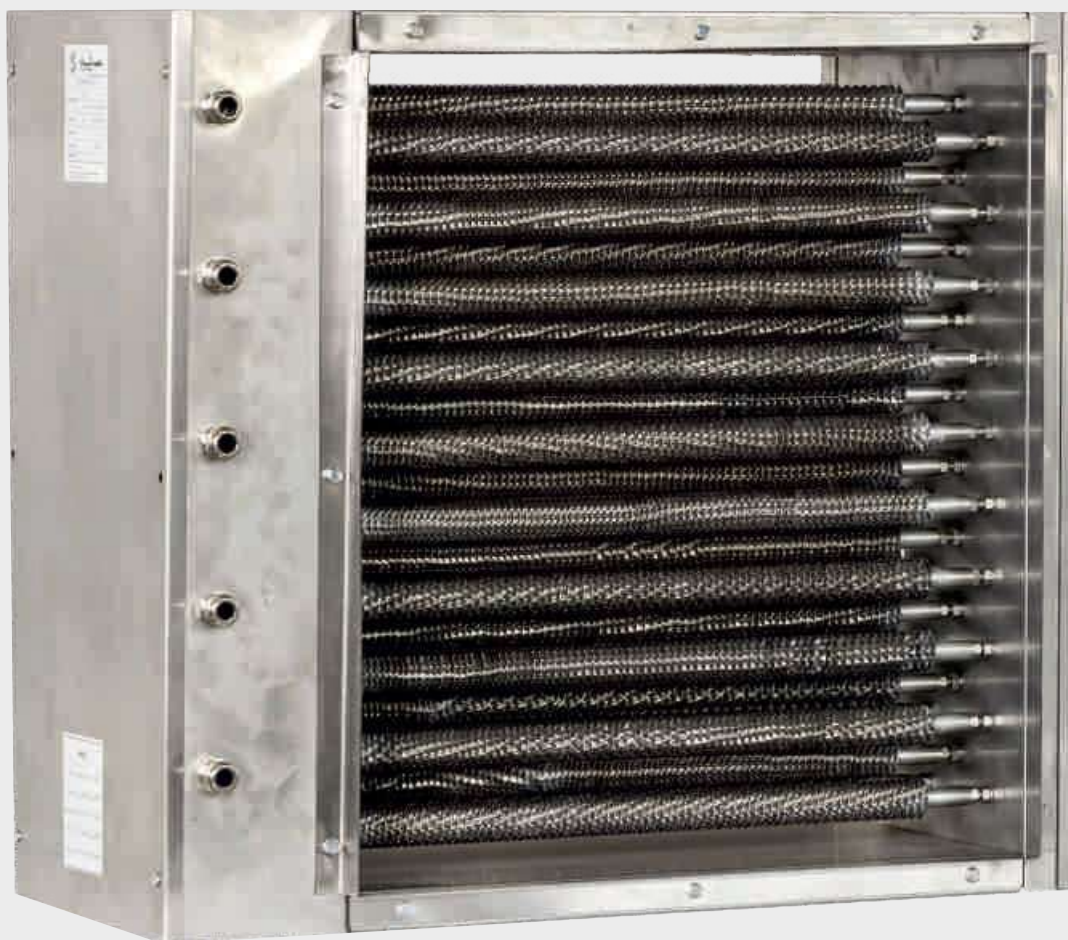
- Expansion Valve
- Solenoid Valve
- Sight Glass
- High & Low
- Anti-Freeze
- Filter Drier
- Ball Valve
- Check Valve
- Relief Valve
- Pressure Gage

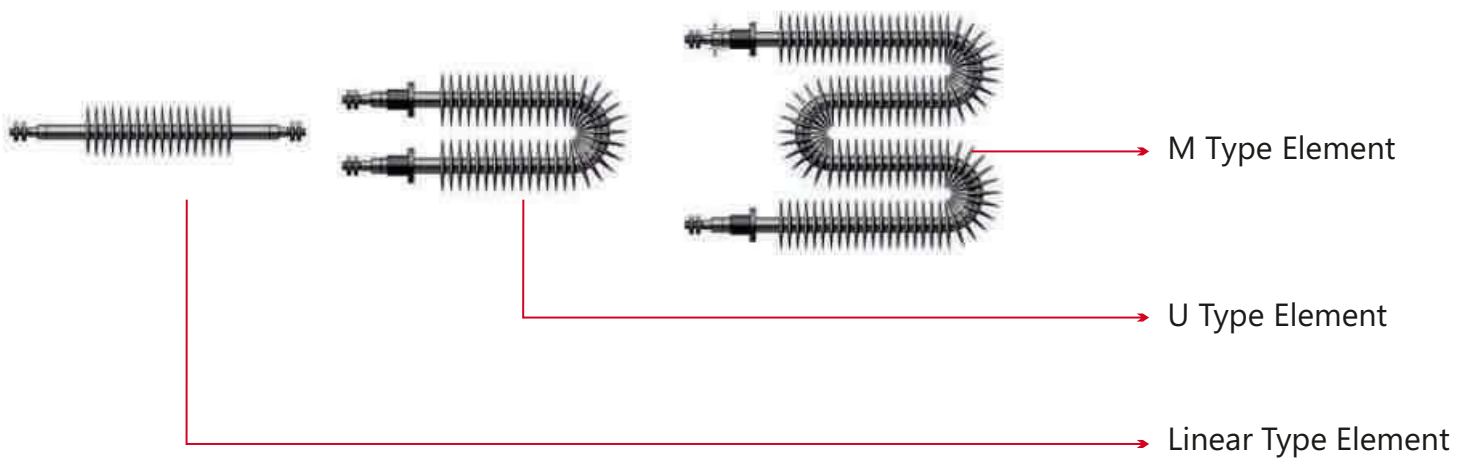
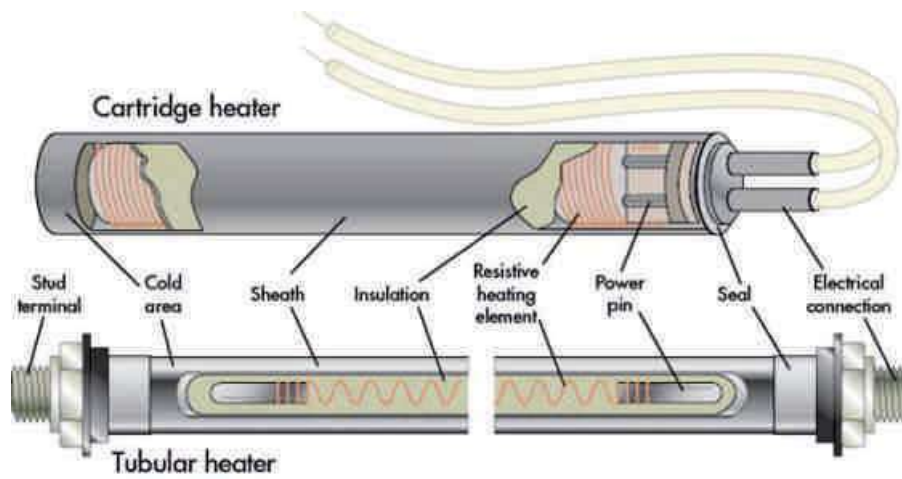
Electrical

- Controller
- Main Incoming Device
- Contactor
- Thermal Magnetic Breaker
- Phase Monitoring Relay
- Terminal
- Miniature Circuit Breaker



ELECTRICAL COIL STEEL ELEMENTS





Stainless Steel Frame



Stainless Steel 304
Spiral Fin

The design of electric coils to create pre-heating in hospital ducts and clean rooms according to the heat capacity and CFM of the wind inside the duct.
The ability to design dimensions according to the size of the duct.



Fireproof Wire



Circuit according to single - phase
or three - phase electricity

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