



تهویه آسمان  
TAHVIEH ASEMAN



PRODUCT CATALOG  
EDITION 2023

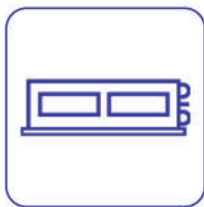
**HVAC PRODUCTION**

[www.tahviehaseman.com](http://www.tahviehaseman.com)

# TAHVIEH ASEMAN

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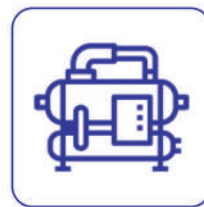
## Manufacturer of HVAC Systems



FAN COIL  
DUCTED FAN COIL



MINI CHILLER



WATER COOLED  
CHILLER



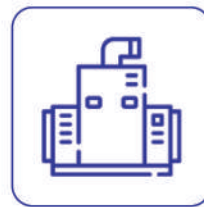
AIR COOLED  
CHILLER



CONDENSER



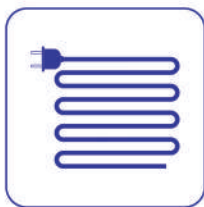
COIL



PACKAGED UNIT



AIR HANDLING  
UNIT



ELECTRICAL  
COIL



CONDENSING  
UNIT



DUCTED SPLIT



A.C SPLIT

## ABOUT US

TAHVIYEH ASEMAN began its operations 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

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## DIRECTORY

4	FAN COIL
10	MINI CHILLER
12	AIR COOLED CHILLER
24	AIR HANDLING UNITS
25	PACKAGED UNITS

# 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: 20 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							
COIL	MODEL		SLFC0200	SLFC0300	SLFC0400	SLFC0600	SLFC0800	SLFC1000	SLFC1200	
	AIR FLOW RATE (CFM)		200	300	400	600	800	1000	1200	
	NOMINAL CAPACITY (BTU/H)	COOLING	TOTAL	8500	9900	12900	18300	26200	28600	35200
			SENSIBLE	5800	6400	8400	12000	17400	18400	23000
	HEATING		22100	23600	30600	43400	64300	66700	84000	
	FACE AREA (SQ.FT)		0.9	1.1	1.3	1.6	2.4	2.4	2.4	
	WATER FLOW RATE (GPM)		2	2.5	3	4	5	6	7	
	PIPING CONNECTION (IN)		3/4	3/4	3/4	3/4	1	1	1	
	FIN ROW/FPI		3/12	3/12	3/12	3/12	3/12	3/12	3/12	
	WATER PRESSURE DROP (PSI)		0.7	1.2	2	3.5	7	7	10	
MOTOR	POWER SUPPLY (V/HZ)		220-240/50							
	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 :A - 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	67*52*21	77*52*21	87*52*21	102*52*21	132*52*21	142*52*21	152*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 20Pa measured without filter and air outlet (No plenum)

# 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: 20 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
AIR FLOW RATE (CFM)			200	300	400	600	800	1000	1200
NOMINAL CAPACITY (BTU/H)	COOLING	TOTAL	8900	10400	13500	19200	27500	30000	37000
		SENSIBLE	6000	6700	8800	12600	18300	19300	24200
	HEATING		23200	24800	23100	45500	67500	70100	88200
FACE AREA (SQ.FT)			0.9	1.1	1.3	1.6	2.4	2.4	2.4
WATER FLOW RATE (GPM)			2	2.5	3	4	5	6	7
PIPING CONNECTION (IN)			3/4	3/4	3/4	3/4	1	1	1
FIN ROW/FPI			3/12	3/12	3/12	3/12	3/12	3/12	3/12
WATER PRESSURE DROP (PSI)			0.7	1.2	2	3.5	7	7	10
MOTOR	POWER SUPPLY (V/HZ)		220-240/50						
	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: A)						
	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)		250	400	250	400	400	400	400
	NOISE LEVEL (DB)		36	37	39	40	40	42	42
BODY	DIMENSION (L*W*H)	CM	67*55*24	77*55*24	87*55*24	102*55*24	132*55*24	142*55*24	152*55*24
	NET WEIGHT (Kg)		20	23	27	30	35	38	44
	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 20 Pa measured without filter and air outlet (No plenum)

# Celling 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: 20 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			Celling Fan Coil								
MODEL			SDFC0200	SDF0300	SDFC0400	SDFC0600	SDFC8002	SDFC8003	SDFC1000	SDFC1200	
AIR FLOW RATE (CFM)			200	300	400	600	800	800	1000	1200	
COIL	NOMINAL CAPACITY (BTU/H)	COOLING	TOTAL	8500	9900	12900	18300	22600	26200	28600	35200
			SENSIBLE	5800	6400	8400	12000	15100	17400	18400	23000
		HEATING	22100	23600	30600	43400	56000	64300	66700	84000	
FACE AREA (SQ.FT)			0.9	1.1	1.3	1.6	1.8	2.4	2.4	2.4	
WATER FLOW RATE (GPM)			2	2.5	3	4	4.5	5	6	7	
PIPING CONNECTION (IN)			3/4	3/4	3/4	3/4	1	1	1	1	
FIN ROW/FPI			3/12	3/12	3/12	3/12	3/12	3/12	3/12	3/12	
WATER PRESSURE DROP (PSI)			0.7	1.2	2	3.5	5	7	7	10	
MOTOR	POWER SUPPLY (V/Hz)		220-240/50								
	INPUT POWER (HP)		1/20	1/20	1/20	1/20	1/12	1/20+1/20	1/20+1/20	1/12	
	NO OF MOTOR		1	1	1	1	1	2	2	2	
	CLASS		ELECTROGEN (CLASS: A)								
	MAX RPM		1100	1100	1100	1100	1100	1100	1100	1100	
FAN	TYPE		Centrifugal Fan (Metalic Forward Curved)								
	NO OF FAN		1	1	2	2	2	3	3	3	
	AIR FLOW RATE (CFM)		300	300	200	300	400	300	300	400	
	NOISE LEVEL (DB)		40	40	42	42	44	42	44	46	
BODY	DIMENSION (L*W*H)	CM	65*48*22	75*48*22	85*48*22	100*48*22	110*48*24	130*48*22	140*48*22	140*48*24	
	NET WEIGHT (Kg)		15	17	21	24	26	30	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

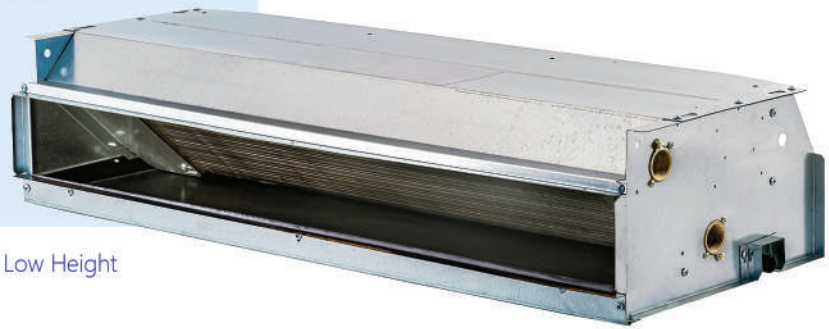
2- Nominal condition at fan high speed, Heating:  
 Ent Air DB: 60 F = 15C  
 Ent Fluid Temp: 180 F = 82C, Lvg Fluid Temp: 160 F = 71C

3- Air flow is tested with standard air condition and dry coil  
 4- Static pressure is 20Pa measured without filter and air outlet (No plenum)

# Ceiling Fan Coil

## Model: SLIM - No Plenum

Capacity: 200-1200 CFM  
 Coil: 3/8-3 Row - 12 FPI  
 Fan: Metallic Centrifugal Fan  
 Motor: Electrogen  
 Static Pressure: 20 Pa



- \* Suitable For Installation In The Ceiling With a Low Height
- \* Three Standard speeds with a low noise level
- \* An external Plastic Drain pan
- \* The possibility of using an electric heating coil
- \* The possibility of full fresh air
- \* Forged brass collector with Air vent and Drain Valve
- \* EVA Insulator: Drain Pan: 5 mm

Model : Slim - No Plenum			Ceiling Fan Coil							
COIL	MODEL		NPFC0200	NPFC0300	NPFC0400	NPFC0600	NPFC0800	NPFC1000	NPFC1200	
	AIR FLOW RATE (CFM)		200	300	400	600	800	1000	1200	
	NOMINAL CAPACITY (BTU/H)	COOLING	TOTAL	8500	9900	12900	18300	26200	28600	35200
			SENSIBLE	5800	6400	8400	12000	17400	18400	23000
	HEATING		22100	23600	30600	43400	64300	66700	84000	
	FACE AREA (SQ.FT)		0.9	1.1	1.3	1.6	2.4	2.4	2.4	
	WATER FLOW RATE (GPM)		2	2.5	3	4	5	6	7	
	PIPING CONNECTION (IN)		3/4	3/4	3/4	3/4	1	1	1	
	FIN ROW/FPI		3/12	3/12	3/12	3/12	3/12	3/12	3/12	
	WATER PRESSURE DROP (PSI)		0.7	1.2	2	3.5	7	7	10	
MOTOR	POWER SUPPLY (V/HZ)		220-240/50							
	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: A)							
	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	67*50*21	77*50*21	87*50*21	102*50*21	132*50*21	142*50*21	152*50*21	
	NET WEIGHT (Kg)		15	18	22	25	29	33	38	
	FILTER		-							
	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 20Pa measured without filter and air outlet (No plenum)

# Ceiling Ducted Fan Coil

## Model: DUCTED FAN COIL

Capacity: 600-2000 CFM  
 Coil: 3/8-4 Row - 12 FPI  
 Fan: Metallic 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 Fan Coil							
MODEL			MSDF0600	MSDF0800	MSDF1000	MSDF1200	MSDF1400	MSDF1600	MSDF1800	MSDF2000
AIR FLOW RATE (CFM)			600	800	1000	1200	1400	1600	1800	2000
NOMINAL CAPACITY (BTU/H)	COOLING	TOTAL	25200	29500	33600	37600	44200	50400	54600	57900
		SENSIBLE	16800	20000	23100	26200	29000	33100	36200	38900
	HEATING	50500	63600	76500	88200	104800	121000	132800	144000	
FACE AREA (SQ.FT)			1.8	1.8	2	2	2.7	3	3	3
WATER FLOW RATE (GPM)			5	6	6.5	7.5	9	10	11	11.5
PIPING CONNECTION (IN)			1	1	1	1	1	1	1	1
FIN ROW/FPI			4/12	4/12	4/12	4/12	4/12	4/12	4/12	4/12
WATER PRESSURE DROP (PSI)			2	2.8	3.5	4.5	7.5	9.5	11	12
MOTOR	POWER SUPPLY (V/Hz)		220-240/50							
	INPUT POWER (HP)		187	187	187	187	187	187+60	187+80	187+80
	NO OF MOTOR		1	1	1	1	1	2	2	2
	CLASS		ELECTROGEN (CLASS: A)							
	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	62
BODY	DIMENSION (L*W*H)	CM	100*50*30	100*50*30	105*50*30	105*50*30	130*50*30	140*50*30	140*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 / 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

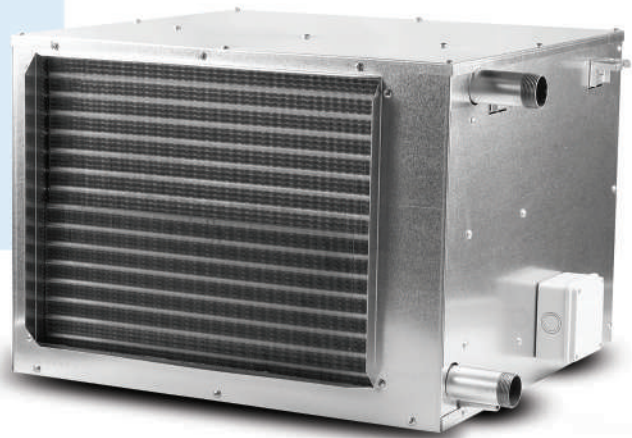
3- Air flow is tested with standard air condition and dry coil  
 4- Static pressure is 60Pa measured without filter and air outlet (No plenum)



# Celling 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
- \* Forged brass collector with Air vent and Drain Valve
- \* EVA Insulator: Drain Pan: 5 mm, Body: 3 mm

Model : HIGH DUCTED FAN COIL			Celling Ducted Fan Coil				
COIL	MODEL		HSDF0750	HSDF1000	HSDF1500	HSDF2000	
	AIR FLOW RATE (CFM)		750	1000	1500	2000	
	NOMINAL CAPACITY (BTU/H)	COOLING	TOTAL	20100	27000	42000	59600
			SENSIBLE	14400	19200	29400	40500
	HEATING		60100	79300	119700	161000	
	FACE AREA (SQ.FT)		1.7	2.2	3.2	4.3	
	WATER FLOW RATE C (GPM)		4	5	7	10	
	PIPING CONNECTION (IN)		1	1	1-1/4	1-1/4	
	FIN ROW/FPI		4-12	4-12	4-12	4-12	
	WATER PRESSURE DROP (PSI)		0.4	0.7	1.7	4	
MOTOR	POWER SUPPLY (V/HZ)		220	220	220	220	
	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	
FAN	TYPE		2520	2525	2520	2525	
	NO OF FAN		1	1	2	2	
	MAX CURRENT (A)		1.8	2	3.6	4	
	NOISE LEVEL (DB)		65	64	66	68	
BODY	DIMENSION (L*W*H)	CM	65*70*45	75*70*45	100*70*45	125*70*45	
	NET WEIGHT (Kg)		52	56	80	95	
	FILTER		Aluminum (Optional Synthetic Nylon)				
	DRAIN PAN / CONNECTION		Galvanized / 3/4 - Each side				

**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

# Mini Chiller

## Model: COMPACT

Air Cooled Chiller

Capacity: 4-7 TON (Nominal)  
 Compressor: Scroll , Copeland or Danfoss  
 Condenser: Air Cooled, Fan: Zilabeg  
 Expansion Valve: Thermostatic  
 Evaporator: Shell & Tube

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve, Accumulator, High & Low, KP, Anti Freez, Thermostat, Straighner, Pump, Expansion Tank, Flow Swich



MODEL: COMPACT		R22-R407C	CSC22004	CSC22005	CSC22006	CSC22007
CAPACITY	COOLING	KW	11.4	14.0	17.0	19.2
		TON	3.2	4.0	4.8	5.5
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	ZR81
	REFRIGERANT	TYPE	R22/R407C	R22/R407C	R22/R407C	R22/R407C
	MAX CURRENT	A	6.5	7.38	7.93	9.5
CONDENSER	COIL	TYPE	Fin-Tube	Fin-Tube	Fin-Tube	Fin-Tube
		QTY	1	1	1	1
	FAN	MODEL	50	50	63	63
		QTY	1	1	1	1
		RPM	900	1320	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	WATER VOLUME	L	23	24.5	26	28
	FLOW RATE	L/m	45	46	48	50
UNIT DIMENSION	L	cm	150	150	150	150
	W	cm	95	95	95	95
	H	cm	130	130	130	130
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 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	CSC22004	3.0	11.3	7.7	3.2	11.0	7.5	3.4	10.8	7.4
	CSC22005	3.6	13.9	9.5	3.8	13.5	9.2	4.0	13.2	9.0
	CSC22006	4.3	17.0	11.6	4.6	16.5	11.3	4.8	16.1	11.0
	CSC22007	4.8	19.2	13.1	5.0	18.6	12.7	5.3	18.2	12.4

**Note:**

1- Nominal conditions  
 Evaporator IN/OUT Water Temperature: 12/7 C

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

# Mini Chiller

## Model: PERMIUM

Air Cooled Chiller

Capacity: 8-14 TON (Nominal)  
 Compressor: Scroll, Copeland or Danfoss  
 Condenser: Air Cooled, Fan: Zilabeg  
 Expansion Valve: Thermostatic  
 Evaporator: Shell & Tube  
 Possibility of being 1,2 Circuit

Contain: Reciever, Filter Drier, Sight Glass, Selonoid Valve, Accumulator, High & Low, KP, Anti Freez, Thermostat, Straighner, Pump, Expansion Tank, Flow Swich



MODEL: PERMIUM		R22-R407C	PSC22008	PSC22010	PSC22012	PSC22014
CAPACITY	COOLING	KW	22.5	30.0	34.2	37.0
		TON	6.4	8.5	9.7	10.5
COMPRESSOR	TYPE	SCROLL	1,2 Circuit	1,2 Circuit	1,2 Circuit	1,2 Circuit
	QTY	-	1,2	1,2	1,2	1,2
	BRAND	-	COPELAND	COPELAND	COPELAND	COPELAND
	MODEL	ZR	ZR94 2*ZR48	ZR125 2*ZR61	ZR144 2*ZR72	ZR160 2*ZR81
	REFRIGERANT	TYPE	R22/R407C	R22/R407C	R22/R407C	R22/R407C
	MAX CURRENT	A	11	12	15	17
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	1,2	1,2	1,2	1,2
	FAN	MODEL	50	63	63	63
		QTY	2	2	2	2
		RPM	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	WATER VOLUME	L	27	35	45	55
	FLOW RATE	L / m	72	90	110	135
UNIT DIMENSION	L	cm	230	230	230	230
	W	cm	95	95	95	95
	H	cm	130	130	130	130
CONNECTION	INLET / OUTLET	IN	1-1/4	1-1/2	1-1/2	1-1/2
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380
	MAX POWER INPUT	KW	8	10	11	13
	MAX CURRENT	A	15	17	20	23

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	PSC22008	5.5	22.5	15	5.9	21.7	15	6.1	21.2	14
	PSC22010	7.2	30.0	20	7.8	29.0	20	8.1	28.4	19
	PSC22012	8.2	34.2	23	8.8	33.1	23	9.1	32.3	22
	PSC22014	9.2	37.0	25	9.8	35.8	24	10.2	34.9	24

**Note:**

1- Nominal conditions  
 Evaporator IN/OUT Water Temperature: 12/7 C

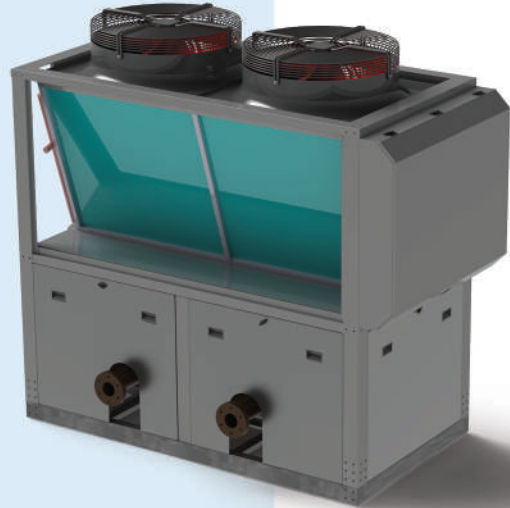
Outdoor Air Temperature: 35C  
 Subcooling: 5, Superheat: 10, Altitude: 3800 ft

# Air Cooled Chiller

## Model: MIDDLE - Scroll - R22

Capacity: 15-30 TON (Nominal)  
 Compressor: Scroll , Copeland  
 Condenser: Air Cooled, Fan: Zilabeg  
 Expansion Valve: Thermostatic  
 Evaporator: Shell & Tube

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



MODEL: MIDDLE - Scroll - R22		R22	MSC22015	MSC22020	MSC22025	MSC22030
CAPACITY	COOLING	KW	45.0	60.0	68.4	87.8
		TON	12.8	17.1	19.4	25.0
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	R22	R22	R22
	MAX CURRENT	A	24	30	34	48
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	2	2	2	2
	FAN	MODEL	71	71	80	80
		QTY	2	2	2	2
		RPM	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	WATER VOLUME	L	27	42	75	105
	FLOW RATE	L/m	136	180	226	270
UNIT DIMENSION	L	cm	250	250	250	250
	W	cm	115	115	115	115
	H	cm	220	220	220	220
CONNECTION	INLET / OUTLET	IN	1-1/2	2	2	2-1/2
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380
	MAX POWER INPUT	KW	15	18	22	28
	MAX CURRENT	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

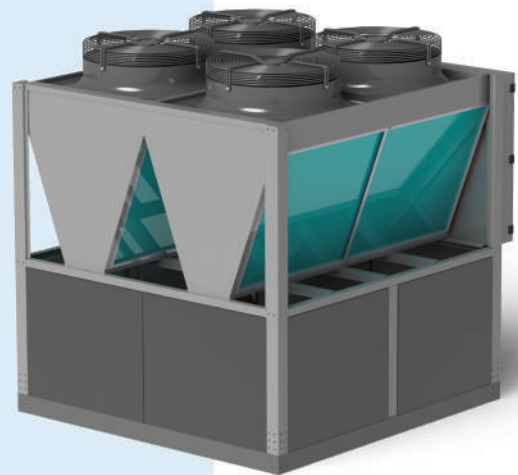
Outdoor Air Temperature: 35C  
 Subcooling: 5, Superheat: 10, Altitude: 3800 ft

# Air Cooled Chiller

## Model: HEAVY - Semi Hermetic - R134

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

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



MODEL: HEAVY-Semi Hermetic-R134		R134a	HSE34030	HSE34060	HSE34070	HSE34110	HSE34120	HSE34140
CAPACITY	COOLING	KW	54.8	121.2	128.2	192.3	239.0	256.4
		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
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	2	4	4	6	8	8
	FAN	MODEL	80	80	80	80	80	80
		QTY	2	4	4	6	8	8
		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	L	50	100	115	150	160	180
	FLOW RATE	L / m	180	360	450	630	820	900
UNIT DIMENSION	L	cm	220	250	250	350	450	450
	W	cm	110	220	220	220	220	220
	H	cm	180	180	180	180	180	180
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 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	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

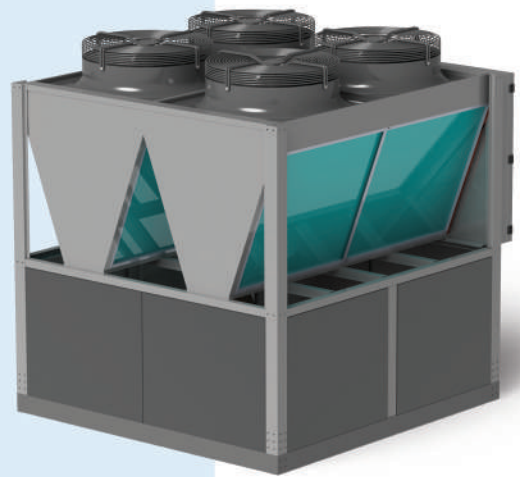
Outdoor Air Temperature: 35C  
 Subcooling: 5, Superheat: 10, Altitude: 3800 ft

# Air Cooled Chiller

## Model: HEAVY - Semi Hermetic - R22

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

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



MODEL: HEAVY-SEMI HERMETIC-R22		R22	HSE22020	HSE22040	HSE22050	HSE22060	HSE22075
CAPACITY	COOLING	KW	62.6	102.0	135.4	156.6	203.0
		TON	17.8	29.0	38.5	44.5	57.7
COMPRESSOR	TYPE	SEMI HERMETIC	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-	2	2	2	2	2
	BRAND	-	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
	REFRIGERANT	TYPE	R22	R22	R22	R22	R22
	MAX CURRENT	A	32	48	65.2	78	100
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	2	4	4	6	6
	FAN	MODEL	80	80	80	80	80
		QTY	2	4	4	6	6
		RPM	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	WATER VOLUME	L	50	95	115	125	150
	FLOW RATE	L / m	180	360	450	540	630
UNIT DIMENSION	L	cm	220	220	220	350	350
	W	cm	110	220	220	220	220
	H	cm	180	180	180	180	180
CONNECTION	INLET / OUTLET	IN	2	3	3	3	4
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380
	MAX POWER INPUT	KW	22	35	45	55	68
	MAX CURRENT	A	38	52	72	88	115

Capacity Correction Of Air Cooled Chiller		Air Trepature 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

**Note:**

1- Nominal conditions  
 Evaporator IN/OUT Water Temperature: 12/7 C

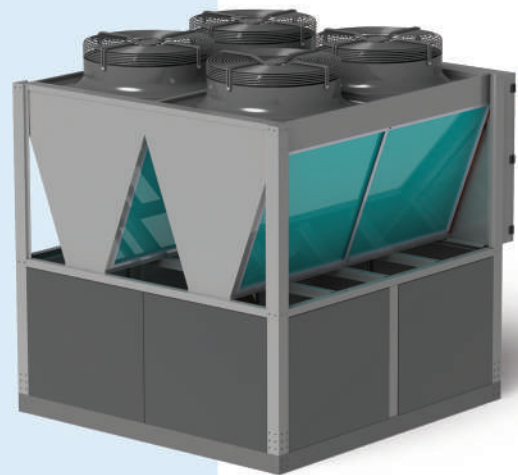
Outdoor Air Temperature: 35C  
 Subcooling: 5, Superheat: 10, Altitude: 3800 ft

# Air Cooled Chiller

## Model: HEAVY - Semi Hermetic - R22

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

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



MODEL: HEAVY-SEMI HERMETIC-R22		R22	HSE22085	HSE22100	HSE22120	HSE22140	HSE22160
CAPACITY	COOLING	KW	233.0	280.2	328.1	376.0	466.0
		TON	66.2	79.7	93.3	106.9	132.5
COMPRESSOR	TYPE	SEMI HERMETIC	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-	2	2	2	2	4
	BRAND	-	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	S.H	6GE-40-40P	6FE-50-40P	8FE-70-40P 6FE-50-40P	8FE-70-40P	6GE-40-40P
	REFRIGERANT	TYPE	R22	R22	R22	R22	R22
	MAX CURRENT	A	116.8	156	188	220	168
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	8	8	10	12	12
	FAN	MODEL	80	80	80	80	80
		QTY	8	8	10	12	12
		RPM	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	WATER VOLUME	L	175	230	245	280	300
	FLOW RATE	L/m	720	900	1088	1270	1630
UNIT DIMENSION	L	cm	450	450	550	650	650
	W	cm	220	220	220	220	220
	H	cm	180	180	180	180	180
CONNECTION	INLET / OUTLET	IN	4	4	5	5	5
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380
	MAX POWER INPUT	KW	78	90	115	125	140
	MAX CURRENT	A	125	168	200	230	180

Capacity Correction Of Air Cooled Chiller		Air Trepature 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	HSE22085	61	233	159	63	225	153	65	219	150
	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

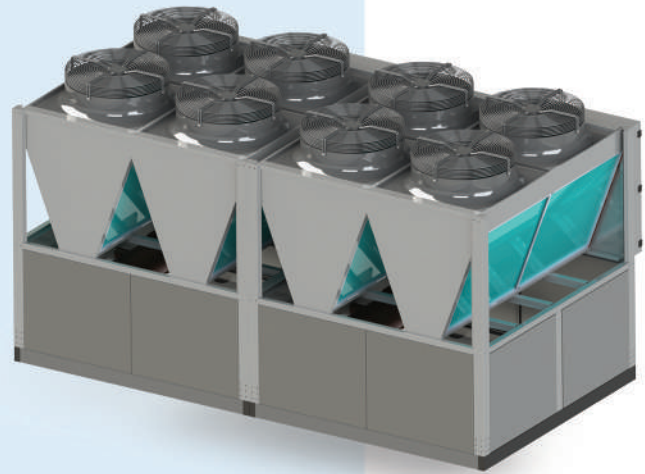
Outdoor Air Temperature: 35C  
 Subcooling: 5, Superheat: 10, Altitude: 3800 ft

# Air Cooled Chiller

## Model: HEAVY - Scroll - R22

Capacity: 40-180 TON (Nominal)  
 Compressor: Scroll: Copeland, Danfoss  
 Condenser: Air Cooled, Fan: Zilabeg or same  
 Expansion Valve: Thermostatic, Electronic  
 Evaporator: Shell & Tube

Contain: Receiver, Filter Drier, Sight Glass, Solenoid Valve,  
 Accumulator, High & Low, KP, Anti Freeze, Thermostat,  
 Flow Switch



MODEL: HEAVY - SCROLL - R22		R22	HSC22040	HSC22050	HSC22060	HSC22070	HSC22080
CAPACITY	COOLING	KW	114.2	142.4	176.0	199.5	228.4
		TON	32.5	40.5	50.0	56.7	64.9
COMPRESSOR	TYPE	SCROLL	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-	2	2	2	3	4
	BRAND	-	Copeland	Copeland	Copeland	Copeland	Copeland
	MODEL	ZR	ZR250	ZR310	ZR380	2*ZR310 1*ZR250	ZR250
	REFRIGERANT	TYPE	R22-R407C	R22-R407C	R22-R407C	R22-R407C	R22-R407C
	MAX CURRENT	A	56	72	86	100	112
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	4	4	6	6	8
	FAN	MODEL	80	80	80	80	80
		QTY	4	4	6	6	8
		RPM	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	WATER VOLUME	L	100	115	107	150	175
	FLOW RATE	L/m	360	450	544	635	725
UNIT DIMENSION	L	cm	220	220	330	330	450
	W	cm	220	220	220	220	220
	H	cm	180	180	180	180	180
CONNECTION	INLET / OUTLET	IN	3	3	3	3	4
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380
	MAX POWER INPUT	KW	37	45	52	63	74
	MAX CURRENT	A	60	76	90	110	125

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	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

**Note:**

1- Nominal conditions  
 Evaporator IN/OUT Water Temperature: 12/7 C

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

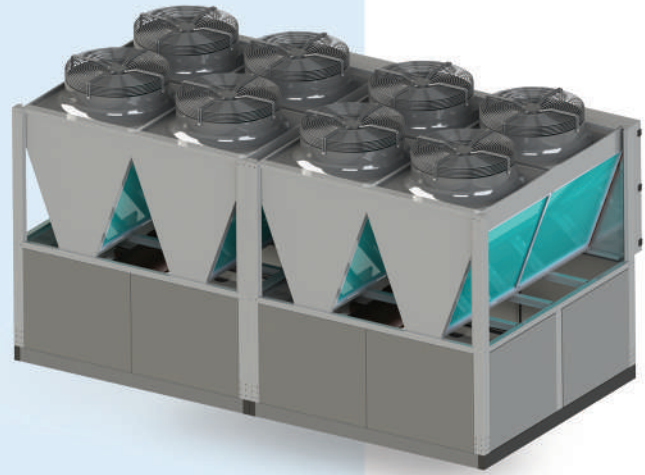


# Air Cooled Chiller

## Model: HEAVY - Scroll - R22

Capacity: 40-180 TON (Nominal)  
 Compressor: Scroll: Copeland, Danfoss  
 Condenser: Air Cooled , Fan: Zilabeg or same  
 Expansion Valve: Thermostatic, Electronic  
 Evaporator: Shell & Tube

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



MODEL: HEAVY - SCROLL - R22		R22	HSC22100	HSC22120	HSC22140	HSC22160	HSC22180
CAPACITY	COOLING	KW	285.5	356.0	427.2	456.8	528.0
		TON	81.2	101.2	121.5	129.9	150.1
COMPRESSOR	TYPE	SCROLL	2 Circuit	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-	5	5	6	8	6
	BRAND	-	Copeland	Copeland	Copeland	Copeland	Copeland
	MODEL	ZR	ZR250	ZR310	ZR310	ZR250	ZR380
	REFRIGERANT	TYPE	R22-R407C	R22-R407C	R22-R407C	R22-R407C	R22-R407C
	MAX CURRENT	A	140	180	216	224	258
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	10	10	12	12	16
	FAN	MODEL	80	80	80	80	80
		QTY	10	10	12	12	16
		RPM	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	WATER VOLUME	L	236	212	287	264	350
	FLOW RATE	L / m	910	1088	1270	1451	1630
UNIT DIMENSION	L	cm	550	550	660	660	770
	W	cm	220	220	220	220	220
	H	cm	180	180	180	180	180
CONNECTION	INLET / OUTLET	IN	4	5	5	5	6
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380
	MAX POWER INPUT	KW	90	115	135	145	165
	MAX CURRENT	A	150	200	230	240	280

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	HSC22100	73	286	195	77	278	189	81	272	186
	HSC22120	90	356	243	96	345	235	100	337	230
	HSC22140	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

**Note:**

1- Nominal conditions  
 Evaporator IN/OUT Water Temperature: 12/7 C

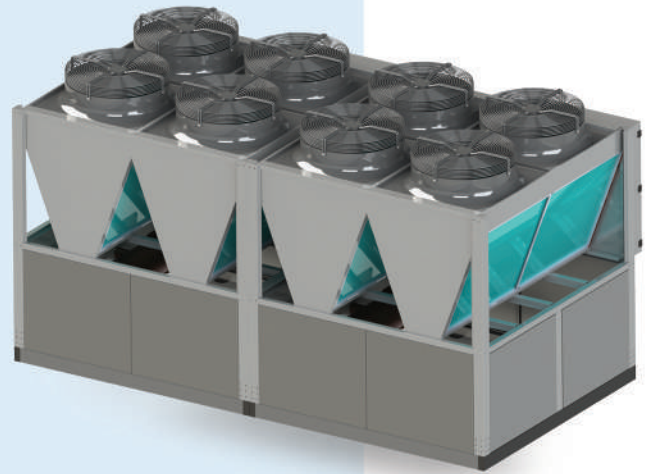
Outdoor Air Temperature: 35C  
 Subcooling: 5, Superheat: 10, Altitude: 3800 ft

# Air Cooled Chiller

## Model: HEAVY - Scroll - R134a

Capacity: 20-160 TON (Nominal)  
 Compressor: Scroll: Copeland, Danfoss  
 Condenser: Air Cooled, Fan: Zilabeg or same  
 Expansion Valve: Thermostatic, Electronic  
 Evaporator: Shell & Tube

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



MODEL: HEAVY - Scroll - R134a		R134a	HSC34020	HSC34040	HSC34060	HSC34080
CAPACITY	COOLING	KW	58.6	115.4	173.1	230.8
		TON	16.7	32.8	49.2	65.6
COMPRESSOR	TYPE	SCROLL	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-	2	2	3	4
	BRAND	-	Copeland	Copeland	Copeland	Copeland
	MODEL	ZR	ZR190	ZR380	ZR380	ZR380
	REFRIGERANT	TYPE	R134a	R134a	R134a	R134a
	MAX CURRENT	A	44	64	96	128
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	2	4	6	8
	FAN	MODEL	80	80	80	80
		QTY	2	4	6	8
		RPM	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	WATER VOLUME	L	50	95	110	126
	FLOW RATE	L / m	180	360	540	725
UNIT DIMENSION	L	cm	220	220	350	450
	W	cm	110	220	220	220
	H	cm	180	180	180	180
CONNECTION	INLET / OUTLET	IN	3	3	3	4
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380
	MAX POWER INPUT	KW	20	38	58	75
	MAX CURRENT	A	50	70	100	136

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	HSC34020	16	59	40	16	56	38	17	55	38
	HSC34040	30	115	79	32	112	76	33	109	75
	HSC34060	45	173	118	48	167	114	50	164	112
	HSC34080	60	231	157	64	223	152	66	218	149

**Note:**

1- Nominal conditions  
 Evaporator IN/OUT Water Temperature: 12/7 C

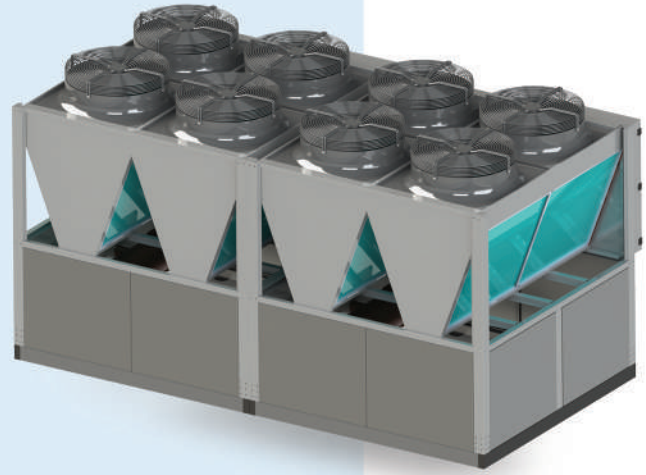
Outdoor Air Temperature: 35C  
 Subcooling: 5, Superheat: 10, Altitude: 3800 ft

# Air Cooled Chiller

## Model: HEAVY - Scroll - R134a

Capacity: 20-160 TON (Nominal)  
 Compressor: Scroll: Copeland, Danfoss  
 Condenser: Air Cooled, Fan: Zilabeg or same  
 Expansion Valve: Thermostatic, Electronic  
 Evaporator: Shell & Tube

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



MODEL: HEAVY - Scroll - R134a		R134a	HSC34100	HSC34120	HSC34140	HSC34160
CAPACITY	COOLING	KW	288.5	346.2	403.9	461.6
		TON	82.0	98.4	114.8	131.2
COMPRESSOR	TYPE	SCROLL	2 Circuit	2 Circuit	2 Circuit	2 Circuit
	QTY	-	5	6	7	8
	BRAND	-	Copeland	Copeland	Copeland	Copeland
	MODEL	ZR	ZR380	ZR380	ZR380	ZR380
	REFRIGERANT	TYPE	R134a	R134a	R134a	R134a
	MAX CURRENT	A	160	192	224	256
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	10	12	14	16
	FAN	MODEL	80	80	80	80
		QTY	10	12	14	16
		RPM	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	WATER VOLUME	L	150	210	190	250
	FLOW RATE	L / m	900	1088	1270	1450
UNIT DIMENSION	L	cm	550	650	750	850
	W	cm	220	220	220	220
	H	cm	180	180	180	180
CONNECTION	INLET / OUTLET	IN	4	5	5	5
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380
	MAX POWER INPUT	KW	95	120	130	145
	MAX CURRENT	A	170	200	240	260

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	HSC34100	75	289	197	80	279	190	83	273	186
	HSC34120	90	346	236	96	335	228	100	328	224
	HSC34140	105	404	276	112	391	267	116	382	261
	HSC34160	120	462	315	128	446	305	133	437	298

**Note:**

1- Nominal conditions  
 Evaporator IN/OUT Water Temperature: 12/7 C

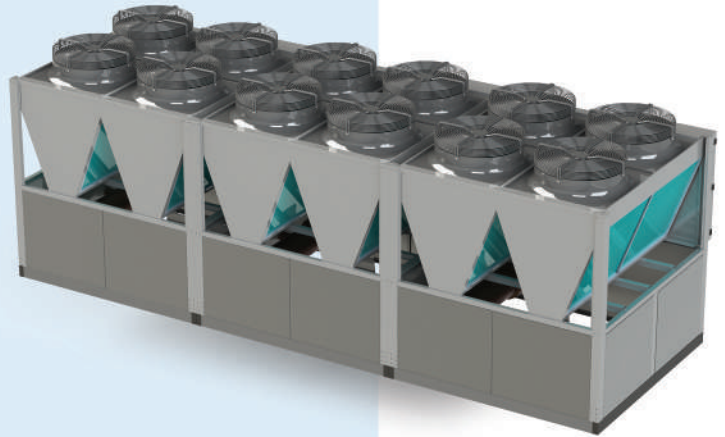
Outdoor Air Temperature: 35C  
 Subcooling: 5, Superheat: 10, Altitude: 3800 ft

# Air Cooled Chiller

## Model: HEAVY - Screw - R22

Capacity: 50-250 TON (Nominal)  
 Compressor: Screw: Bitzer, Hanbel or same  
 Condenser: Air Cooled, Fan: Zilabeg or same  
 Expansion Valve: Electronic  
 Evaporator: Shell & Tube

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



MODEL: HEAVY - Screw - R22		R22	HSW22050	HSW22060	HSW22070	HSW22080	HSW22090	HSW22100
CAPACITY	COOLING	KW	132.1	166.0	194.0	226.3	269.2	298.7
		TON	37.6	47.2	55.1	64.4	76.5	84.9
COMPRESSOR	TYPE	SCREW	1 Circuit	1 Circuit	1 Circuit	1,2 Circuit	1,2 Circuit	1,2 Circuit
	QTY	-	1	1	1	1,2	1,2	1,2
	BRAND	-	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	CSH	6553-50-40p	6563-60-40P	7553-70-40P	7563-80-40P	7573-90-40P	7583-100-40P
	REFRIGERANT	TYPE	R22	R22	R22	R22	R22	R22
	MAX CURRENT	A	54	67	80	90	98	113
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	4	6	6	8	8	10
	FAN	MODEL	80	80	80	80	80	80
		QTY	4	6	6	8	8	10
		RPM	900	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	
	WATER VOLUME	L	115	120	150	170	190	230
	FLOW RATE	L / m	450	560	630	720	820	900
UNIT DIMENSION	L	cm	220	350	350	450	450	550
	W	cm	220	220	220	220	220	220
	H	cm	180	180	180	180	180	180
CONNECTION	INLET / OUTLET	IN	3	3	3	4	4	4
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380	380
	MAX POWER INPUT	KW	35	42	50	58	68	78
	MAX CURRENT	A	60	72	90	100	110	122

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	HSW22050	28	132	90	29	128	87	31	124	85
	HSW22060	34	166	113	36	161	110	38	156	106
	HSW22070	42	194	132	44	188	128	46	182	124
	HSW22080	48	226	154	50	219	149	52	212	144
	HSW22090	55	269	184	57	261	178	60	253	173
	HSW22100	64	299	204	66	289	197	69	280	191

**Note:**

1- Nominal conditions  
 Evaporator IN/OUT Water Temperature: 12/7 C

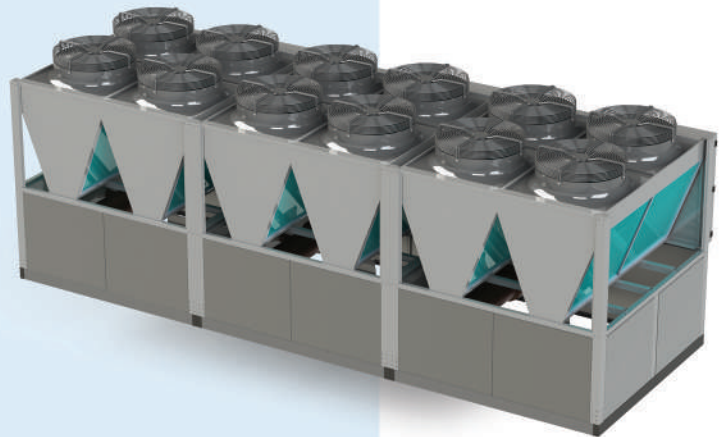
Outdoor Air Temperature: 35C  
 Subcooling: 5, Superheat: 10, Altitude: 3800 ft

# Air Cooled Chiller

## Model: HEAVY - Screw - R22

Capacity: 50-250 TON (Nominal)  
 Compressor: Screw: Bitzer, Hanbel or same  
 Condenser: Air Cooled, Fan: Zilabeg or same  
 Expansion Valve: Electronic  
 Evaporator: Shell & Tube

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



MODEL: HEAVY - Screw - R22		R22	HSW22125	HSW22140	HSW22180	HSW22220	HSW22250
CAPACITY	COOLING	KW	370.4	427.3	558.0	656.0	758.6
		TON	105.3	121.5	158.6	186.5	215.7
COMPRESSOR	TYPE	SCREW	1,2 Circuit	1,2 Circuit	1,2 Circuit	1,2 Circuit	1,2 Circuit
	QTY	-	1,2	1,2	1,2	1,2	1,2
	BRAND	-	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	CSH	8563-125-40P	8573-140-40P	9553-180-40D	9563-210-40D	9573-240-40D
	REFRIGERANT	TYPE	R22	R22	R22	R22	R22
	MAX CURRENT	A	141	170	212	237	264
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	10	12	14	18	20
	FAN	MODEL	80	80	80	80	80
		QTY	10	12	14	18	20
	RPM	900	900	900	900	900	
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	WATER VOLUME	L	230	280	260	300	320
	FLOW RATE	L / m	1088	1270	1450	1815	2100
UNIT DIMENSION	L	cm	550	650	750	850	1200
	W	cm	220	220	220	220	220
	H	cm	180	180	180	180	180
CONNECTION	INLET / OUTLET	IN	5	5	6	6	6
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380
	MAX POWER INPUT	KW	90	112	135	155	170
	MAX CURRENT	A	155	185	225	250	280

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	HSW22125	77	370	253	79	359	245	83	347	236
	HSW22140	94	427	292	97	417	284	101	406	277
	HSW22180	113	558	381	118	544	371	123	529	361
	HSW22220	133	656	448	137	639	436	143	621	424
	HSW22250	148	759	518	154	737	503	161	715	488

**Note:**

1- Nominal conditions  
 Evaporator IN/OUT Water Temperature: 12/7 C

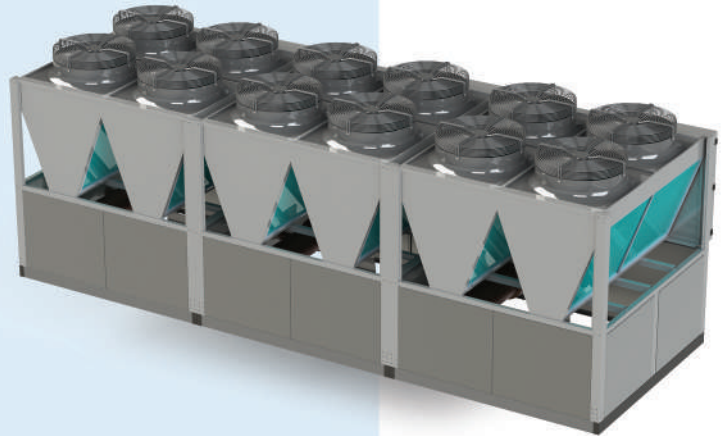
Outdoor Air Temperature: 35C  
 Subcooling: 5, Superheat: 10, Altitude: 3800 ft

# Air Cooled Chiller

## Model: HEAVY - Screw - R134a

Capacity: 60-320 TON (Nominal)  
 Compressor: Screw: Bitzer, Hanbel or same  
 Condenser: Air Cooled, Fan: Zilabeg or same  
 Expansion Valve: Electronic  
 Evaporator: Shell & Tube

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



MODEL: HEAVY - Screw - R134a		R134	HSW34060	HSW34090	HSW34110	HSW34125	HSW34140	HSW34160
CAPACITY	COOLING	KW	133.7	157.7	209.0	243.0	276.0	302.0
		TON	38.0	44.8	59.4	69.1	78.5	85.9
COMPRESSOR	TYPE	SCREW	1 Circuit	1 Circuit	1 Circuit	1,2 Circuit	1,2 Circuit	1,2 Circuit
	QTY	-	1	1	1	1,2	1,2	1,2
	BRAND	-	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	CSH	6593-60Y-40P	7573-90Y-40P	7593-110Y-40p	8563-125Y-40P	8573-140Y-40P	8583-160Y-40P
	REFRIGERANT	TYPE	R134a	R134a	R134a	R134a	R134a	R134a
	MAX CURRENT	A	63	76	100	122	135	150
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	4	6	6	8	8	10
	FAN	MODEL	80	80	80	80	80	80
		QTY	4	6	6	8	8	10
		RPM	900	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	
	WATER VOLUME	L	115	125	150	175	230	240
	FLOW RATE	L/m	450	550	650	850	900	950
UNIT DIMENSION	L	cm	220	350	350	450	450	550
	W	cm	220	220	220	220	220	220
	H	cm	180	180	180	180	180	180
CONNECTION	INLET / OUTLET	IN	3	3	3	4	4	4
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380	380
	MAX POWER INPUT	KW	40	50	65	78	88	98
	MAX CURRENT	A	68	82	110	130	148	160

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	HSW34060	32	134	91	34	128	87	36	124	85
	HSW34090	40	158	108	42	151	103	44	147	100
	HSW34110	52	209	143	55	201	137	58	195	133
	HSW34125	62	243	166	66	239	163	69	235	160
	HSW34140	69	276	188	74	270	184	78	266	182
	HSW34160	79	302	206	84	296	202	88	291	199

**Note:**

1- Nominal conditions  
 Evaporator IN/OUT Water Temperature: 12/7 C

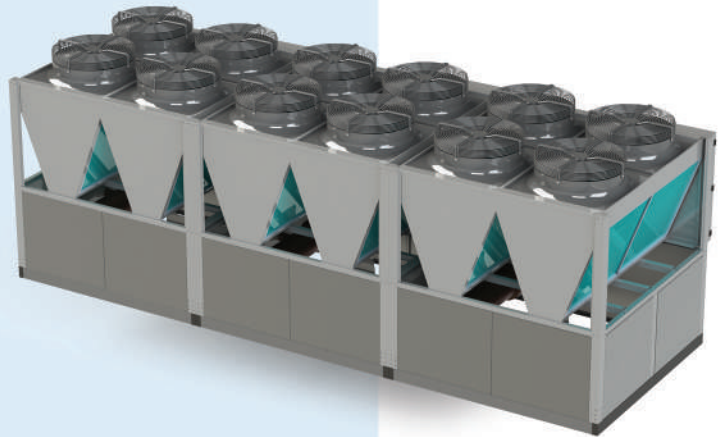
Outdoor Air Temperature: 35C  
 Subcooling: 5, Superheat: 10, Altitude: 3800 ft

# Air Cooled Chiller

## Model: HEAVY - Screw - R134a

Capacity: 60-320 TON (Nominal)  
 Compressor: Screw: Bitzer, Hanbel or same  
 Condenser: Air Cooled, Fan: Zilabeg or same  
 Expansion Valve: Electronic  
 Evaporator: Shell & Tube

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



MODEL: HEAVY - Screw - R134a		R134	HSW34180	HSW34210	HSW34240	HSW34280	HSW34320
CAPACITY	COOLING	KW	346.0	410.0	466.0	662.0	696.0
		TON	98.4	116.6	132.5	188.2	197.9
COMPRESSOR	TYPE	SCREW	1,2 Circuit	1,2 Circuit	1,2 Circuit	1,2 Circuit	1,2 Circuit
	QTY	-	1,2	1,2	1,2	1,2	1,2
	BRAND	-	Bitzer	Bitzer	Bitzer	Bitzer	Bitzer
	MODEL	CSH	8593-180Y-40P	9563-210Y-40D	9573-240Y-40D	95103-280Y-40D	95113-320Y-40D
	REFRIGERANT	TYPE	R134a	R134a	R134a	R134a	R134a
	MAX CURRENT	A	178	196	218	309	323
CONDENSER	COIL	TYPE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE	FIN TUBE
		QTY	10	12	14	18	20
	FAN	MODEL	80	80	80	80	80
		QTY	12	14	16	18	20
		RPM	900	900	900	900	900
EVAPORATOR	TYPE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE	SHELL TUBE
	WATER VOLUME	L	220	280	260	280	300
	FLOW RATE	L/m	1088	1270	1450	1820	1950
UNIT DIMENSION	L	cm	550	650	750	1000	1150
	W	cm	220	220	220	220	220
	H	cm	180	180	180	180	180
CONNECTION	INLET / OUTLET	IN	5	5	6	6	6
ELECTRICAL DATA	VOLTAGE	V	380	380	380	380	380
	MAX POWER INPUT	KW	115	130	145	210	220
	MAX CURRENT	A	195	210	235	325	350

Capacity Correction Of Air Cooled Chiller		Air Tmpreture 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	HSW34180	88	346	236	94	338	231	98	333	227
	HSW34210	103	410	280	110	400	273	115	393	268
	HSW34240	117	466	318	124	455	310	130	447	305
	HSW34280	171	662	452	181	644	439	188	632	431
	HSW34320	177	696	475	187	670	457	194	653	446

**Note:**

1- Nominal conditions  
 Evaporator IN/OUT Water Temperature: 12/7 C

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

# Air Handling Unit

Model: Standard AHU, Hygienic

Capacity: 2000 -50000 CFM

Structure: Aluminum Profile

Body: 2 Layer Steel + Electro Static Color

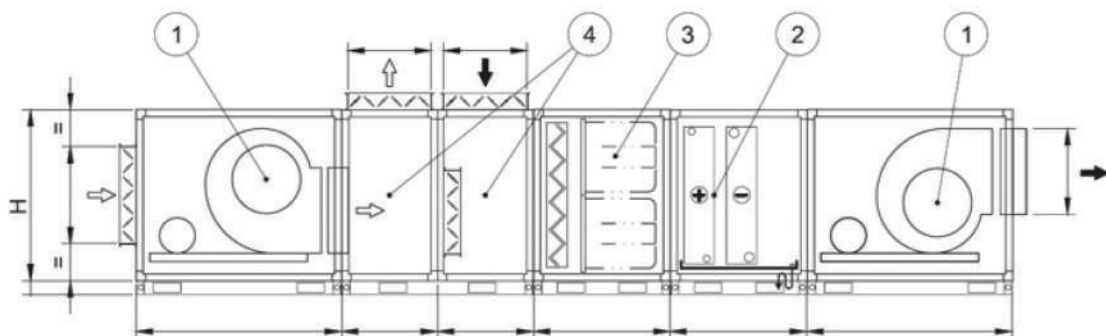
Insulation: 1-1.5 inch by design

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



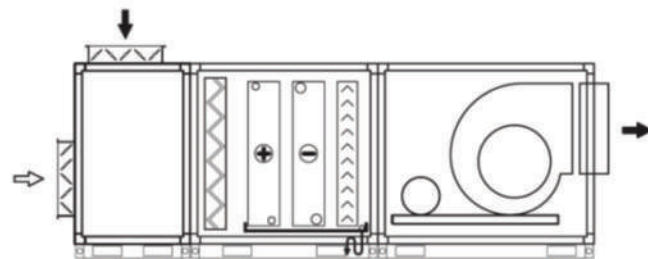
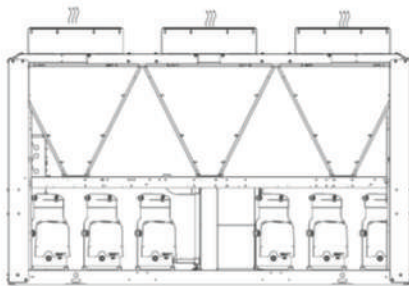
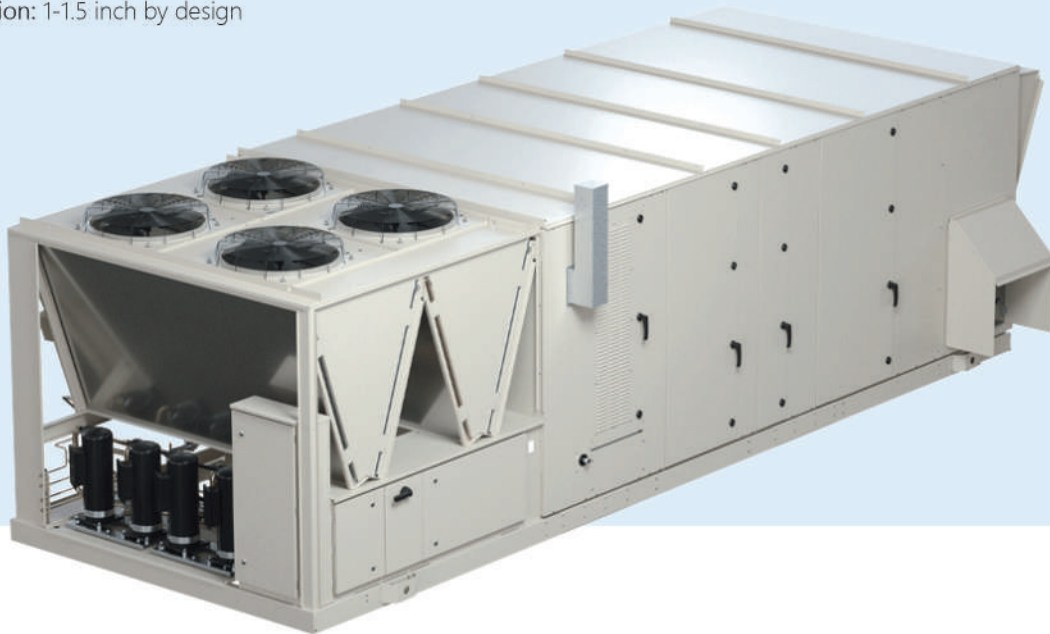
# Packaged Unit

## 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

Note: \_\_\_\_\_

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**TAHVIEH ASEMAN**

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PRODUCT CATALOG  
EDITION 2023



INSTAGRAM  
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