



HVACR Engineering Services (Pvt.) Ltd.

CENTRAL HEATING COOLING EQUIPMENTS MANUFACTURER, SALES & SERVICES

Caring For Your **Comfort**

CATALOGUE

Deals in: All kinds of HVACR Domestic, Commercial, Industrial, Air conditioning Equipments & Parts, Manufacturing, Sales Services, Maintenance & Installations and import the HVAC equipments according to the requirement of client and consultant.



Powerful solid cooling Air conditioning products with a combination of mechanical engineering and comfort engineering

Made in Pakistan



Company Policy

We will produce our best quality products beyond the expectations of customers and we will fulfill the expectations of our honourable clients

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Proud to be Pakistani Brand of Pakistan



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Company History

Comfort HVACR Engineering Services Established in 2013, deals in all kind of (HVAC) Domestic, industrial commercial Air conditioning Equipment sales, manufacturing, services, installation and maintenance in private and Govt. sectors, from this position we were early to recognized the opportunity for HVAC sales services, maintenance contracts, and it specific focus to large format of industrial and commercial air conditioning sales services and maintenance.

Very soon we gained acceptance in the HVAC market and a large number of clients in the market trusted on our company and started working with us (Alhamdulillah).

Journey of Comfort HVACR Engineering Services

In last many years, we have done the large HVAC equipment sales, manufacturing and services repair maintenance projects in all over the country, with best skilled and professional team, with hard work and dedication built our company reput, with in our client sector, there are large number of big local & multinational companies.

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Company Aims

VISION

To evolve into a leading manufacturer, importer, distribution and services provider of Heating Ventilation Air Conditioning (HVACR) and Refrigeration system.

MISSION

We will provide completely reliable and high quality products, solution, and services, resulting in customer loyalty fair profit and inspired human capital.

VALUES

To conduct our business with honesty and integrity and develop a sustainable mutually beneficial relationship with our clients and suppliers to achieve sustained growth and profitability.

In doing this we are guided by these core values:

- **Quality Products:** We will produce our best quality products beyond the expectations of the clients and we will fulfill the expectations of our honourable clients.
- **Superior Service:** We place customers at the centre of our activities and our quest to satisfy their needs drives everything we do.
- **Teamwork:** Our biggest and most important resource is our people and we put together the diversity of our skills to achieve success.
- **Reliability:** Our commitment to service is embodied in our belief in the ISO 9000 family of quality standards, which we will use to ensure continuous improvement of both our customer service and product offering.
- **Innovation:** We continuously seek new ways to add value to our stakeholders' business, be they customers, employees or suppliers. We believe in win-win relationships.
- **Professionalism:** We live by a results oriented culture. Ethics, fairness and honesty are the hallmark of our business relationships.
- **Excellence:** We are determined to keep walking the road for quality standards to continuously improve our customer service and product offering.

Floor Standing Split Air Conditioner

Air Cooled Split Floor Standing Fancy Air Conditioner

Comfort Air cooled split air conditioners CSF series comprises of two sections.

A condensing unit for the outdoor installation An evaporator unit for the indoor installation.

Both sections are connected with refrigerant copper piping at site. These units are designed to provide maximum efficiency at tropical conditions. This unit is best suitable for installation in residential, commercial and industrial applications. The wide range of models provides even better choice to select a particular one for all individual applications.



This product is also available in specially design for hazard areas/cement factory standard. Industrial grade heavy gauge condensers and evaporator units designed on high ambient T3 conditions (+50C) ambient temperature, with 11-12 fins per inch for dusty environment.

Condenser motors and propeller fan blades designed with accurate air flow rate according to the capacities, motor winding with pure copper wire and fan blades manufacturing with aluminum powder coated sheet.

The weather proof design of condensing unit permits their installation outside the building, either on ground level or on rooftop.

The evaporator units are available in various designs, front body of floor standing unit manufacturing with stainless steel gold non magnetic for fancy look of air conditioning unit (Models CSF 500~CSF 2400 only) or at the floor in a separate free space.

The outdoor unit comprises of following parts: Compressor, condenser coil, condenser fan, motor and all required electrical and refrigerant controls/ accessories.

The indoor unit comprises of following parts: Evaporator coil, evaporator fan and motor, refrigerant control and operation control.

Component Details

Air Cooled Split Floor Standing Fancy Air Conditioner

Construction

- The unit is made from heavy gauge galvanized steel sheets. The sheets are degreased, de-rusted, phosphated and finished with electrostatic baked powder paint. This ensures excellent corrosion resistance and thus ensuring long life of the unit. The evaporator unit is provided with Close cell (Aeroflex) insulation to prevent any heat losses. Front body of floor standing unit manufacturing with stainless steel gold non magnetic for fancy look of air conditioning unit.

Compressor

- All CSF series units consist of one or two hermetic or semi hermetic reciprocating/scroll compressors. Each compressor is provided with completely independent refrigerant circuit.

Evaporator Fan & Motor

- The evaporator fans are forward curved centrifugal double width double inlet type. The fans are statically and dynamically balanced for noiseless operation. The blower fan and motor is direct driven with single and double shaft arrangement with multiple blowers.

Evaporator and Condenser Coils

- The evaporator and condenser coils are made of seamless copper tubes and aluminum plate fins. These fins are mechanically expanded for best fit & performance. These coils are tested for leakages under water at a nitrogen pressure of 250 & 450 psig respectively.

Air Filters

- Every unit is supplied with one set of 1" thick washable aluminum pre-filters. The filters of models CSF 500 to CSF 2400 are supplied loose for mounting inside duct or at return air grill.

Electrical Control Panel

- The electrical control panel is provided inside the condensing unit. The control panel consists of phase failure relay, contactors, thermal overload relays, time delay relays (in multi compressors only) and fuses etc. The control panel can be provided for remote installation remote display installation at the front door of floor standing unit.

Operation Switches and Thermostat

- The unit is provided with front door electronic room thermostat. This thermostat is a digital programmable heating and cooling temperature control devices. The thermostat has operation switch for ON/AUTO, HEAT/OFF/COOL and 3-speed fan (optional) switch.

Safety Devices

Air Cooled Split Floor Standing Fancy Air Conditioner & Packaged Air Cooled Chiller

- Compressor internal protector, to protect the compressor motor winding from over heating.
- Power failure relay, to protect the unit in case of failure of any one or two phases.
- Compressor over load relay, to protect the compressor from over current operation.
- Evaporator and condenser fan motor overload relays, to protect them from over current operation.
- Time delay relay, to avoid simultaneous start of compressor and resultant surge current (in multi compressor units).
- High and low, pressure switch, to protect the compressor from damage due to abnormal suction/discharge pressures. Oil protection switch, to protect the compressor from any damage due to lack of lubrication (with semi hermetic compressors only).

Optional Accessories

Air Cooled Split Floor Standing Fancy Air Conditioner & Packaged Air Cooled Chiller

- Pressure gauges, to witness the compressor operating conditions (in outdoor unit). Rubber vibration isolators, to eliminate the transmission of unit's vibration to the foundation/building.
- Acrylic protective coating, on condenser coils for their longer life in sea line areas. Power monitor, to stop the unit in case of failure of any one phase, under voltage or over voltage conditions.
- Low ambient control, to keep the operating compressor discharge pressure within limits, when ambient temperature is low but unit would be required to operate on cooling, due to high inside temperatures.
- High efficiency washable synthetic fiber media filter for extra air infiltration.
- Factory fabricated filter section for CSF 500 to CSF 2000 models.
- Double skin evaporator construction.
- Micro processor control.

Physical Data

Air Cooled Split Floor Standing Fancy Air Conditioner

EVAPORATOR (INDOOR) UNIT: "CSF" Series (Floor Standing Model)								
ITEMS	MODELS	CSF 500 FS (5 Hp)	CSF 700 FS (7.5 Hp)	CSF 1000 FS (10 Hp)	CSF 1200 FS (12 Hp)	CSF 1500 FS (15 Hp)	CSF 2000 FS (20 Hp)	CSF 2400 FS (24 Hp)
EVAPORATOR FAN	TYPE	Direct driven						
	C.F.M	1600	2400	3200	3800	4800	5500	6000
	Design E.S.P	(Direct Flow/Free Discharge)						
EVAPORATOR FAN MOTOR	Nominal H.P	0.5	0.5	1	1.5	2	3	3
	Amps. (RLA)	0.8	0.9	2 x 0.9	2 x 0.9	2.5	3.8	4
AIR FILTERS	Type	1" thick, cleanable, permanent media, Air Filter						
	Size (Inches)	16 x 25 &&	16 x 25 &&	16 x 25 &&	16 x 25 &&	16 x 25 &&	16 x 25 16 x 20	16 x 25 16 x 20
	Quantity	2	2	4	4	4	3/3	3/3
Condensate Drain Connection	Type	Female Piping Threads						
	Size (Inches)	3/4 ID	3/4 ID	3/4 ID	3/4 ID	3/4 ID	1.0 ID	1.0 ID
Dimension MM(In.)	Height	1956 (77.0)		1943 (76.0)	1950 (77.0)	2080 (82.0)	2080 (82.0)	2080 (82.0)
	Width	838 (33.0)		1400 (55)	1400 (55)	1500 (57)	1870 (74)	1870 (74)
	Depth	457 (18.0)		500 (18.5)	500 (18.5)	670 (26.5)	670 (26.5)	670 (26.5)
Weight	Kg	165	190	240	290	350	425	475

Note:

The above Specification are based on the following conditions:

Evaporator Entering Air Temperature = 80.0 °F (26.6 °C) DB, & 67 °F (19.5 °C) WB. Condenser Entering Air Temperature = 95.0 °F (35 °C) DB.

*Both interconnecting Piping in this mode is required to be insulated due to refrigerant control in out door unit

C.F.M = Air Flow Rate

R.L.A Rate load amps

Operating switch will be mounted at unit front...

Refrigerant pipe connection sizes (FS)

MODELS		CSF 500 FS (5 Hp)	CSF 700 FS (7.5 Hp)	CSF 1000 FS (10 Hp)	CSF 1200 FS (12 Hp)	CSF 1500 FS (15 Hp)	CSF 2000 FS (20 Hp)	CSF 2400 FS (24 Hp)
Refrigerant Connections	Type	Solder						
	Liquid	3/8"	3/8"	1/2"	1/2"	2x3/8"	2x1/2"	2x1/2"
	Suction	3/4"	3/4"	3/4"	7/8"	2x3/4"	2x3/4"	2x7/8"

Electrical Data

MODELS	COMPRESSOR(EACH)					EVAPORATOR MOTOR(EACH)			CONDENSER FAN MOTOR(EACH)			TOTAL UNIT		
	S.M	QTY	RLA	FLA	LRA	QTY	RLA	FLA	QTY	RLA	FLA	RLA	FLA	MFA
CSF 500 FS (5 Hp)	AL	1	8.5	11.0	74	1	0.8	1.0	1	0.9	1	10.5	12.9	25
CSF 700 FS (7.5 Hp)	AL	2	7.0	8.5	50	1	0.9	1.1	1	0.9	1	16.0	18.9	30
CSF 1000 FS (10 Hp)	AL	2	8.5	10.5	65	2	0.9	1.1	2	0.9	1	20.8	24.8	40
CSF 1200 FS (12 Hp)	AL	2	9.0	11.0	74	2	0.9	1.1	2	0.9	1	21.2	26.0	40
CSF 1500 FS (15 Hp)	AL	2	13.0	16.0	95	1	2.5	3.1	2	0.9	1	29.3	36.1	50
CSF 2000 FS (20 Hp)	AL	4	18.0	22.5	130	1	6.5	8.1	4	0.9	1	44.1	58.1	75
CSF 2400 FS (24 Hp)	AL	4	9.0	11.0	74	1	4.0	5.0	4	0.9	1	42.8	52.6	75

Physical Data

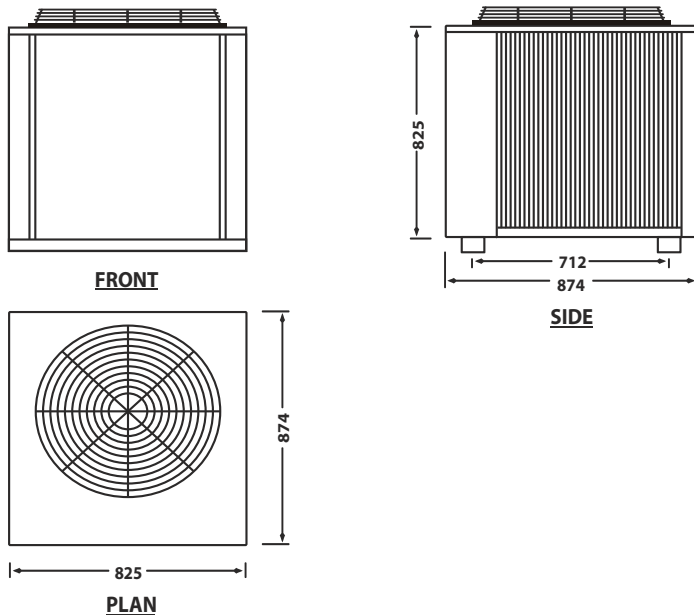
Air Cooled Split Floor Standing Fancy Air Conditioner

CONDENSER (OUTDOOR) UNIT: “CSF” Series (Floor Standing Model)									
ITEMS		MODELS	CSF 500 FS (5 Hp)	CSF 700 FS (7.5 Hp)	CSF 1000 FS (10 Hp)	CSF 1200 FS (12 Hp)	CSF 1500 FS (15 Hp)	CSF 2000 FS (20 Hp)	CSF 2400 FS (24 Hp)
Cooling Capacity	BTU/Hr		50000	75000	105000	121200	148000	210000	242500
	KCAL/Hr		12800	19700	25500	29900	39200	53800	60500
Heating Capacity	BTU/Hr		55500	83000	106500	124500	163500	216500	244500
	KCAL/Hr		14000	21000	27000	31500	41500	54500	61500
Refrigerant	R-22/407 (Factory Charged)								
Refrigerant Circuits	Quantity		1	2	2	2	2	2	2
Refrigerant Charge	K.G		3.75	3.6x2	3.75x2	4x2	4.5x2	6x2	7.5x2
Refrigerant Flow Control	Capillary Tube					Thermostatic expansion valve			
Power Supply	380/415-3-50 HZ								
Compressor	Type	Scroll							
	Quantity		1	2	2	2	2	2	2
	Nominal Hp		5	3.5x2	5x2	6x2	7.5	10x2	12x2
	Amps(RLA)		8.2	7.0x2	8.2x2	8.0x2	12x2	15.5x2	18x2
Condensor Fan	Type	Propeller Type, Directly Mounted On The Motors Shaft							
	Quantity		1	1	2	2	2	4	4
Condensor Fan Motor	Quantity		1	1	2	2	2	4	4
	Nominal Hp		0.5	0.5	0.5x2	0.5x2	0.5x2	0.5x4	0.5x4
	Amps.(RLA)		0.9	0.9	0.9x2	0.8x2	0.9x2	0.9x4	0.9x4
Evaporator Fan	Type	Centrifugal belt driven							
	CFM		1600	2200	3200	3600	4500	5500	6000
	Design ESP(in Wg)		0.6	0.6	0.6	0.6	0.75	0.75	1.0
Evaporator Fan Motor	Nominal Hp		0.75	1.0	2.0	2.0	3	5	7.5
	Amps(RLA)		1.0	2.3	2.4	2.7	3.3	5.8	6.5
Air Filter	Type	1" Thick Cleanable Permanent Aluminum Media,Air Filters							
	Size(inches)		16x25x1		15x20x1,15x15x1			16x20x1	24x24x1
	Quantity		2			4+2		2	
Condensate Drain Connection	Type	Female Piping Threads							
	Size(inches)		3/4						
Dimensions.MM(in)	Height(Evap,Cond)		1041(41), 1243(49)	1041(41), 813(32)	1169(46), 1118(44)			1285(51), 1172(46)	
	Width(Evap,Cond)		813(32), 936(31)	1016(40), 813(32)	1651(65), 1651(65)			1880(74), 1803(71)	
	Depth(Evap,Cond)		787(31), 450(18)	787(31), 864(34)	787(31), 914(36)			1295(51), 1473(58)	
Weight	K.G(Evap,Cond)		100, 150	140, 200	160, 250	175, 260	310, 400	220, 290	320, 450

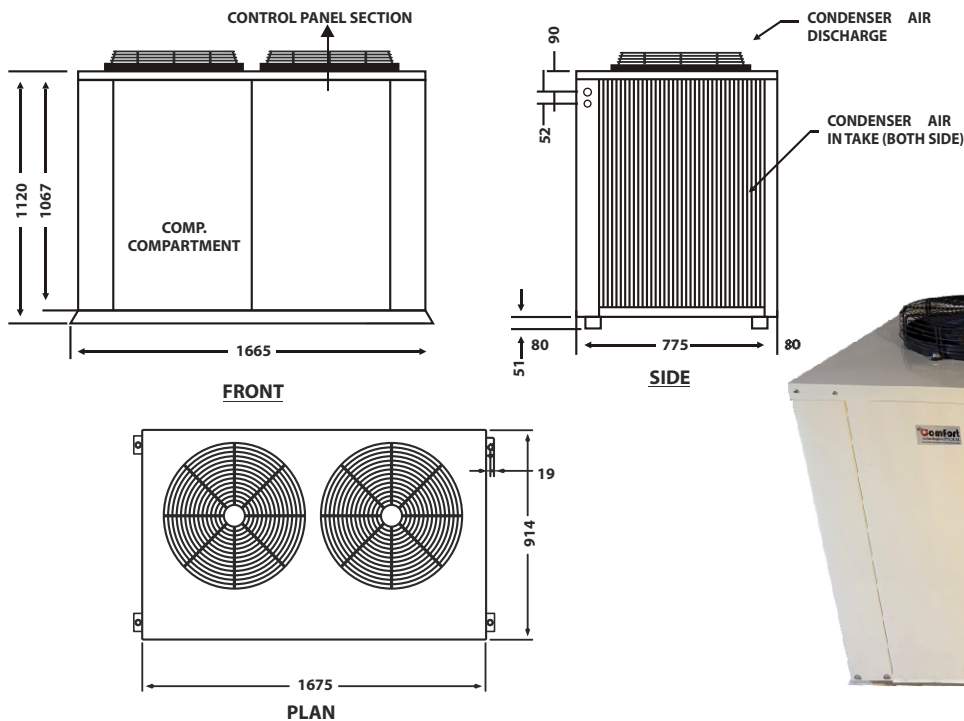
Dimension Data

Air Cooled Split Floor Standing Fancy Air Conditioner

MODEL CSF 500, 600, 700 (CONDENSER)



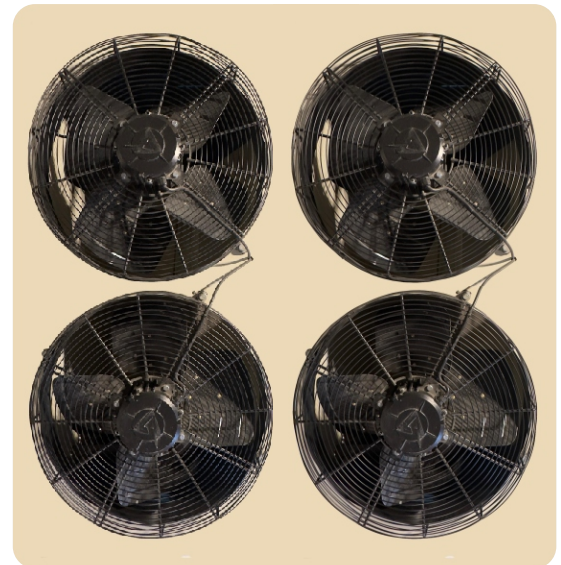
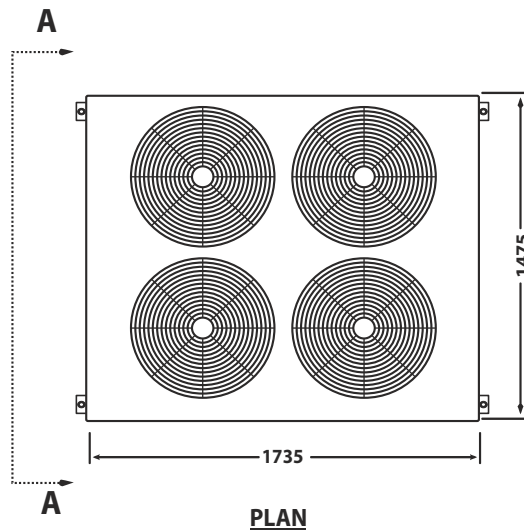
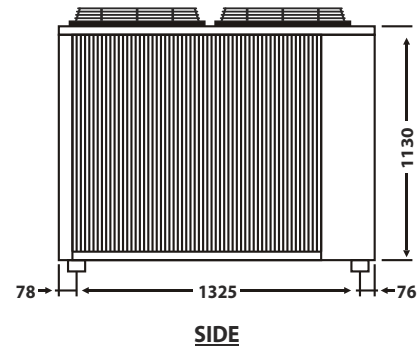
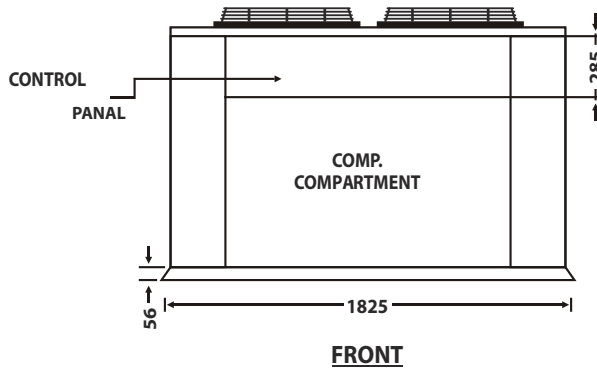
MODEL CSF 1000,1200,1500 (CONDENSER)



Dimension Data

Air Cooled Split Floor Standing Fancy Air Conditioner

MODEL CSF 2000, 2400 (CONDENSER)

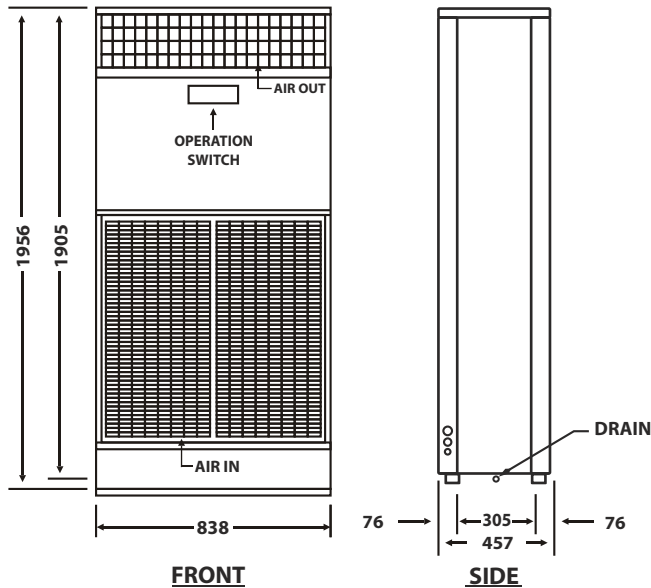


Note: Industrial grade heavy duty condensing units designed on high ambient T3 conditions (+50C) condenser motors and propeller fan blades designed on accurate air flow rate according to the capacities motor winding with pure copper wire and fan blades manufacturing with aluminum powder coted sheet.

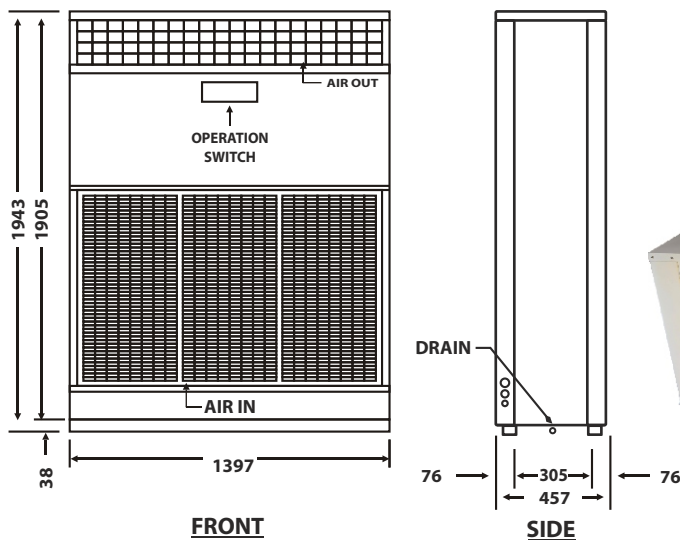
Dimension Data

Air Cooled Split Floor Standing Fancy Air Conditioner

CSF 500, 600, 700 (EVAPORATOR)



CSF 1000, 1200, 1500, 2000 (EVAPORATOR)



Note: Industrial grade heavy duty evaporator units designed on high ambient T3 conditions (+50C) evaporator motors and centrifugal blower fan designed on accurate air flow rate according to the capacities with low noise, motor winding with pure copper wire and blower fans manufacturing with aluminum sheet.

Fan Coil Units

High-Medium-Low Static Fan Coil Units

Comfort Low - Medium - High - Static Fan Coil Units (FCU) are a complete line of fan coil units to meet most air conditioning requirements. For individual room temperature control in chilled water applications, Low - Medium - High - Static fan coils can be an ideal solution on major projects involving Apartment Complexes, Office Blocks, Hospitals and Clinics, Shopping Malls and Centers, Airports, Hi-rise Buildings, Hotels and Motels, Commercial Developments, Schools and Colleges, Libraries and etc.

Units are available in various configurations equipped with many options and accessories.

These units are built for easy installation and service and feature high operating efficiency, low operating cost, quiet and energy efficient fan motors.

Low - Medium - High - Static Fan Coil Units are designed and built in the Pakistan to meet requirements of high sensible heat ratio, durability, minimum maintenance needs.

Deliveries on Low - Medium - High - Static FCUs are reliably prompt. For urgent jobs, units can be delivered, upon request, as fast as required, handled the way they will be installed, with or without factory piped valve package to reduce field installation time and piping time to an absolute minimum.

Comfort provides qualified service and stock of replacement parts in all major cities of the Pakistan.



Physical Data

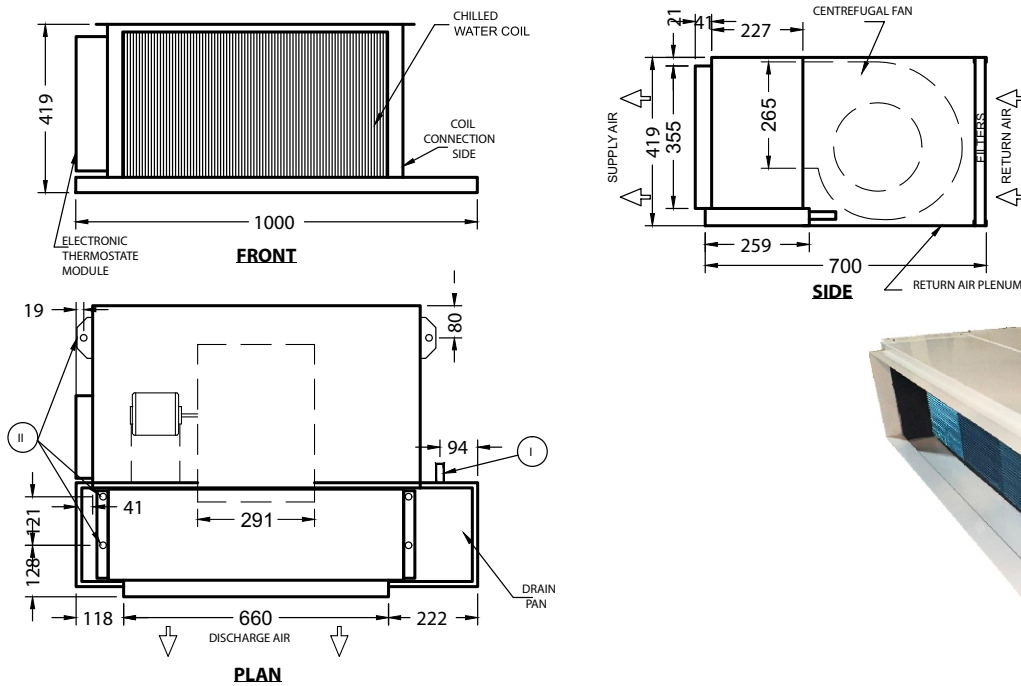
High-Medium-Low Static Fan Coil Units

Models items		FCU 90C	FCU 120C	FCU 180C	FCU 240C	FCU 360C	FCU 480C
Total cooling capacity(Btu/hr)		9000	12000	18000	24000	36000	48000
Sensible cooling capacity(Btu/hr)		7000	9000	13600	18300	25800	35800
Air flow rate(CFM)		300	400	600	800	1200	1600
Water flow rate(GPM)		1.8	2.4	3.6	4.8	7.2	9.6
Water pressure(ft)		2.8	6.5	13.7	19.5	5.2	8.6
Max. External static pressure		Low - 0.100in.wg. Medium - 0.150in.wg. High - 0.200in.wg.					
Power supply		200/220-1-50hz					
coil	Type	Copper tubes mechanically bonded to aluminum plate fins					
	Inlet/outlet connection(size)	1/2" & 3/4"OD, copper tube				7/8" & 1,1/8"OD, copper tube	
	Drain pan	Double wall construction (sandwiched Aeroflex insulation)					
	Drain connection(size)	3/4" OD					
fans	Type	Forward curved centrifugal					
	Material	Aluminum					
	Qty	1	1	2	2	4	4
	Wheel Dia	6-1/2" OD(double inlet)					
	Fan rpm	900	1000	900	900	850	850
motor	Type	Totally enclosed, split capacitor type,3-speed					
	Qty	One(single shaft)		One(double shaft)		Two(double shaft)	
	Rating	65 watts	75 watts	80 watts	90 watts	2x80 watts	2x90 watts
Temp. control		Electronic room thermostat controller with fan speeds (optional)					
Control valve		3-way motorized bypass valve (optional)					
Electric heater(optional)		Nickel chrome electric heater					
Return air plenum with filter.		Provided					
Outer finish.		Powder coating paint					
Weight(kg)		25	28	38	43	65	75

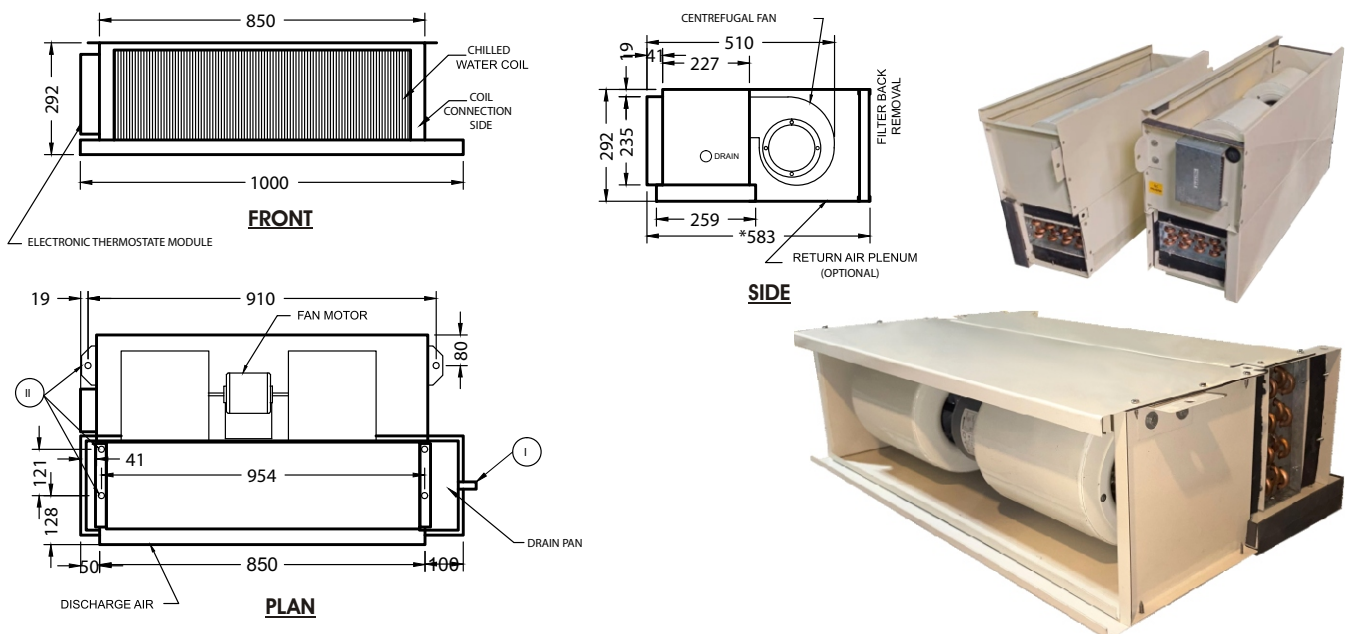
Dimension Data

High-Medium-Low Static Fan Coil Units

MODEL FCU 90C, FCU 120C, FCU 180C



MODEL FCU 240C, FCU 360C, FCU 480C



Air Cooled Chiller

Packaged Air Cooled Chiller

Comfort air cooled packaged water chillers (Series PAC) Packaged Air Cooled Chiller are a source of providing chilled water to all types of air conditioning applications like Hotels, Motels, Restaurants, Multi story buildings, Shopping arcades, Office buildings, Hospitals, Pharmaceuticals, Textile Industry and Industrial Complexes Clinics, Stores, Brand outlets, Cash & Caries etc, as well as for process cooling.



The cold water from chillers is circulated through fan coil units, Air handling units, Air washer units, Heat exchanger or directly through process machines requiring cold water for cooling. The units can also be specially designed to cool brine/glycol solution for below freezing temperatures required for very special process applications. The system is most suitable for air conditioning of Multi story building with individual temperature control at different areas.

These units are Specially designed to operate at maximum efficiency in diverse tropical conditions. All models have multiple compressors with single & double refrigerant circuit models PAC 0500, 0600, 1500, 2000, 2400 & 3000 equipped with all necessary safety and protective devices for smooth, reliable and trouble free operation.

These units are manufactured in a wide range of 4 tons to 50 tons capacities, to meet the individual requirement. All units are completely factory assembled, internally wired, charged with operating refrigerant and operationally tested at factory, before dispatch including built in chilled water circulation pump. The work required at site is to place the unit on foundations, connect it with chilled water piping along with accessories and main power supply connection with circuit breakers etc.

Physical Data

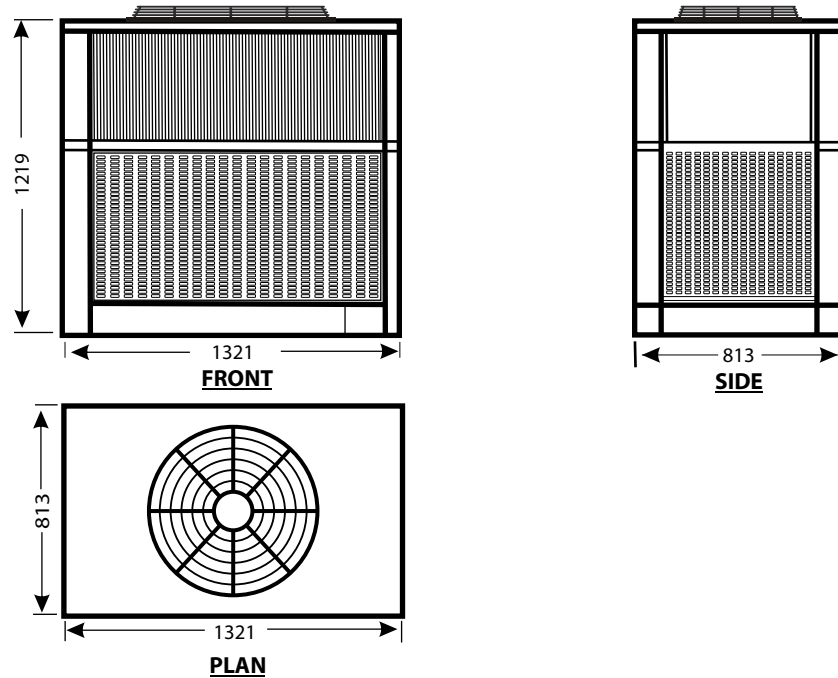
Packaged Air Cooled Chiller

ITEMS		MODELS	PAC 500C	PAC 700C	PAC 1000C	PAC 1500C	PAC 2000C	PAC 2400C	PAC 3000C	PAC 6000C
Nominal Cooling Capacity	Btu/Hr		48000	70000	109000	142000	193000	238500	284000	550000
	Kcal/Hr		11340	17640	27468	35784	48636	60102	71567	122219
Refrigerant Circuits	Qty.		1	2	2	1	2	2	2	1
Compressor	Type		Scroll							
	Qty.		1	2	2	1	2	2	2	1
	Nominal H.P.		5	3.5x2	6x2	15	10x2	15+10	15x2	60
Evap. Cooler	Type		MS Shell and expanded Utubes							
Evap. Water Flow Rate	US GPM		9	14	22	28	39	48	57	97
Cooler Water Connection	Inlet(MPT)		1"	1 1/4"	1 1/2"		2"		1 1/2"	
	Outlet(MPT)		1"	1 1/4"	1 1/2"		2"		1 1/2"	
Cooler Insulation	Type		1" Thick Pre-Expanded Polyurethane							
Condenser Coil	Type		Copper Tubes, Mechanically Expanded to Aluminum Plate Fins							
Condenser Fan	Type		Propeller Type Direct Driven							
	Qty.		2	1	2	2	3	4	4	8
	Motor H.P.		1/6x2	0.5x1	0.5x2	0.5x2	0.5x3	0.5x4	0.5x4	0.5x8
Power Supply			380/415-3-50HZ							
Refrigerant			R-22(FACTORY CHARGED)							
Refrigerant Flow Control			Thermostatic Expansion Valve							
Safety Devices			Phase failure relay,time delay relay,overcurrent relay for compressor and condensor fan motors,comp.crankcase heater,high-low pr. switch, freeze up temp control thermostat and fuse							
Overall Dimensions	Height	mm	1219	1219	1219		1475	1524	1895	1896
		inch	48	48	48		58	60	75	75
	Width	mm	1219	1321	1575		2134	1575	1575	2845
		inch	48	52	62		84	62	62	112
	Depth	mm	559	813	914		914	1880	1778	1575
		inch	22	32	36		36	74	70	62
Weight	K.G.		270	320	500	540	1000	1200	1250	1625

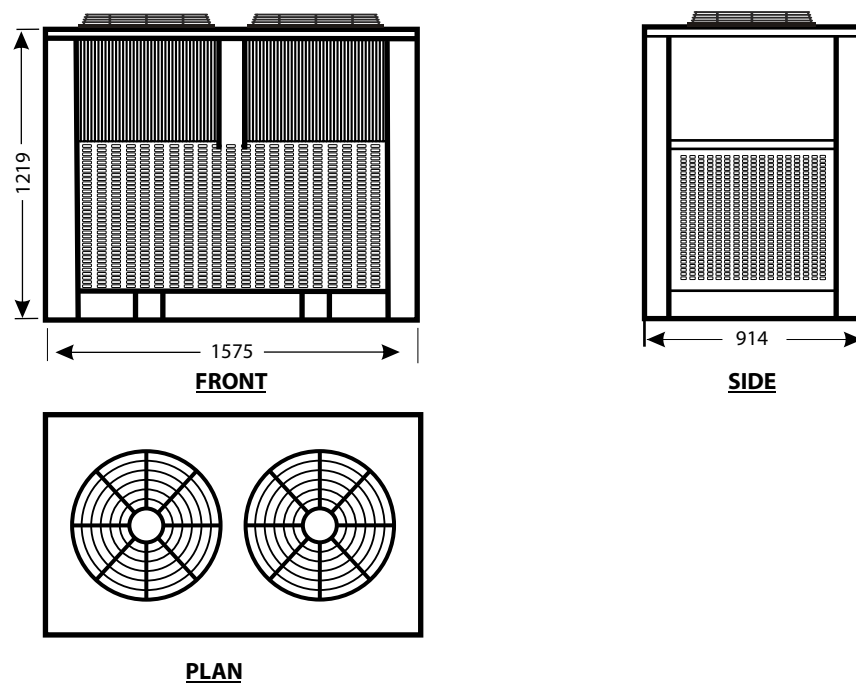
Dimensional Data

Packaged Air Cooled Chiller

MODEL PAC 500C, 700C



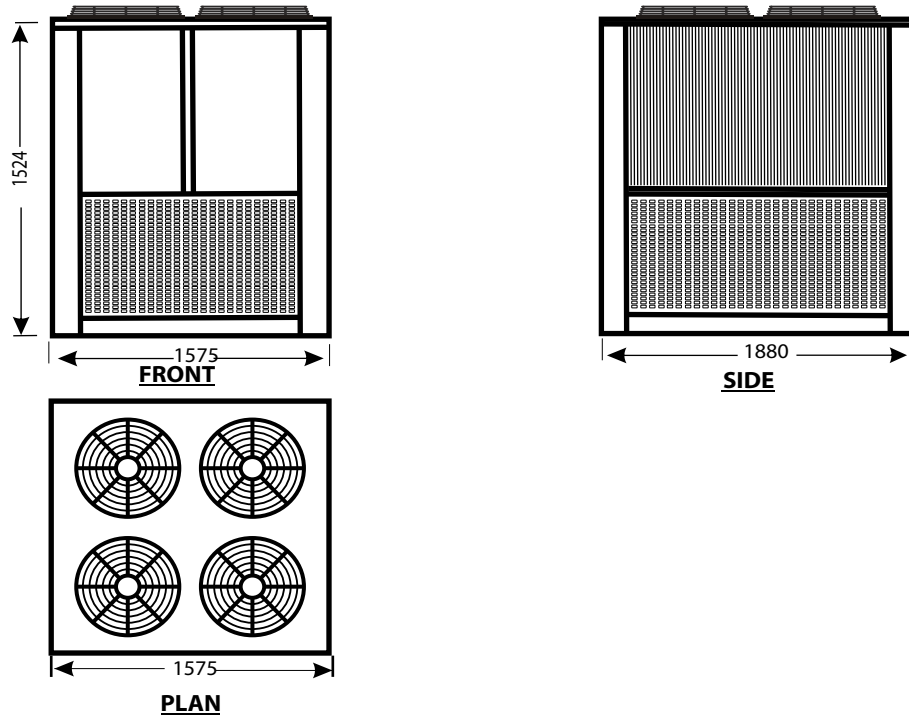
MODEL PAC 1000C, 1500C



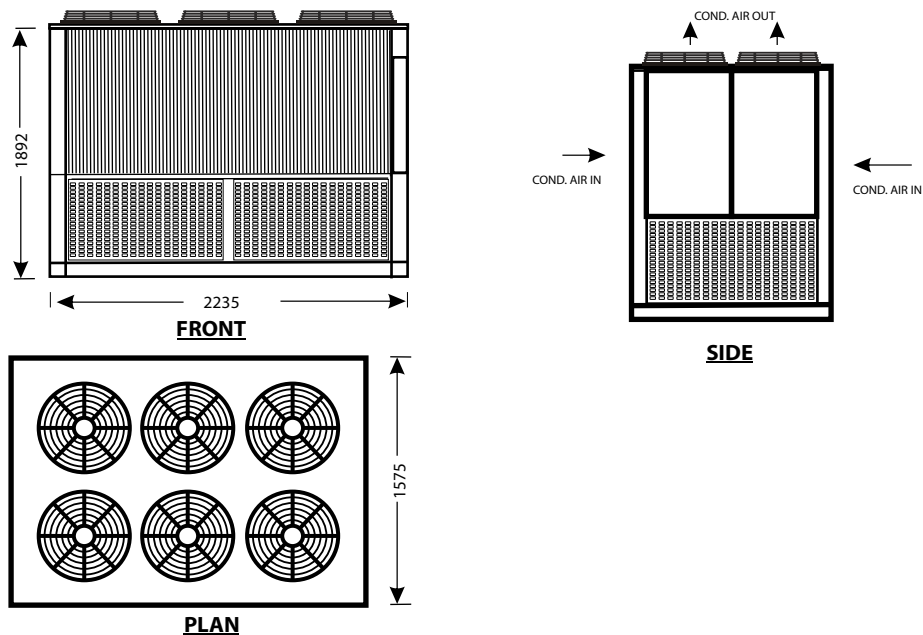
Dimensional Data

Packaged Air Cooled Chiller

MODEL PAC 2000C, 2400C, 3000C



MODEL PAC 6000C



IMPORTED CHILLERS, AIR HANDLING UNIT, VRF/VRV, COOLED STORAGE UNIT AND ALL HVAC EQUIPMENT SALES INSTALLATION AND SERVICES

We have supply and installation of imported HVAC equipment and in collaboration with our national and international partners supply of imported chillers air handling units and VRF/VRV systems from Gulf, China and Europe. Supply and installation of complete HVAC equipment in entire Pakistan. This is the HVAC equipment which is brand new, but being two or three years previous ex-stock can be sale at a very low price in Pakistan with full warranty of HVAC Equipment.

You can buy almost every company's HVAC equipment from us, including Trane, Carrier, York, Dunham Bush, LG, Abara Japan, Gree, Aux, Haier, Mcquay, Carrier, Kawasaki, Daikan, Shuangliang Chiller, Samjung Korea, Samsung Korea and Sanyo, all major companies. Along with the supply of HVAC imported equipments, our company will provide you the HVAC equipment with best after sales services and provision of entire range of HVAC spare parts for any imported HVAC brand without any delay with strong technical services backup.



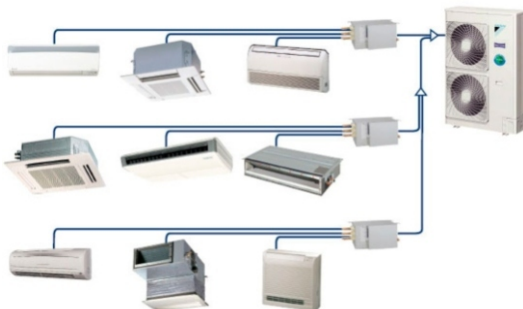
AIR COOLED & WATER COOLED CHILLERS AND ABSORPTIONS CHILLER

We have emerged with the professional and skilled team in the domain of repair and maintenance 24x7, Operation, Construction and Installation, Monitoring & control of centrifugal Chiller, Reciprocating Chiller, Screw Chiller and Refrigeration Services. The services Offered by us are assured to international standards and are also rendered at market economical prices. Moreover, we also ensure that all the customized requirements of clients are fulfilled with utmost ease. Our professionals can render these services for the advanced machine like Carrier, Trane, York, McQuary, Afming, JKG, Dmg Mori, Jenbacher and so on.



VRV / VRF SYSTEM

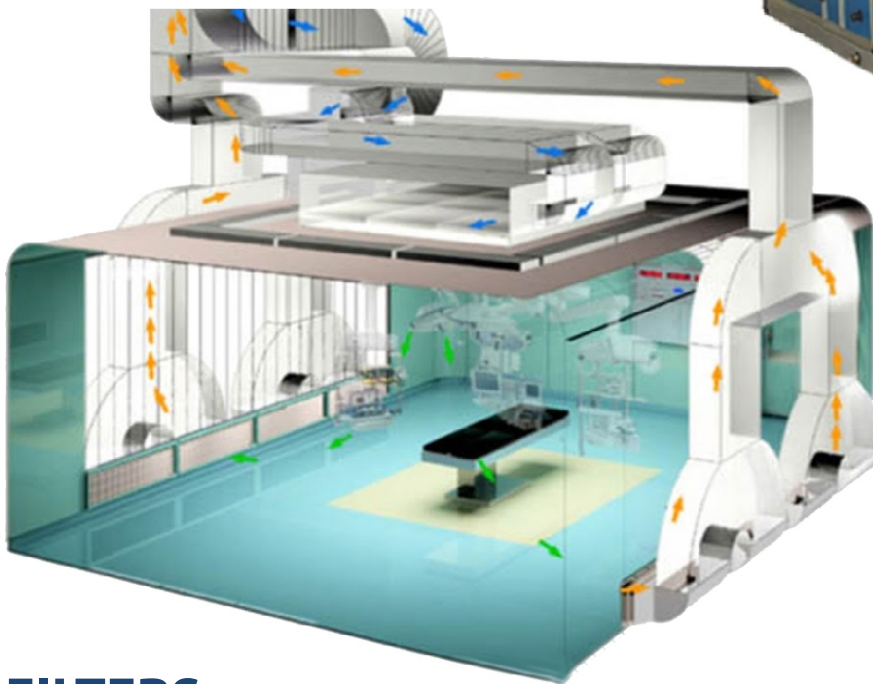
We have supply & installation of commercial & industrial VRV (Variable refrigerant volume) / VRF Variable refrigerant flow System including L & K types, Y-conector and copper piping etc.



CHILLED WATER AND DX AIR HANDLING (HYGIENIC & STANDARD) UNITS & LAMINAR FLOW SYSTEM

We deal in supply, installation & maintenance of laminar flow system 99.9% bacteria free and high performance industrial & health grade Air handling units for clean rooms, operation theaters & laboratories.

Laminar Flow Operation Theaters



FILTERS

Supply and installation of all type filters aluminum filter, mini-pleat, bag filter and hepa filter.



Portable Dehumidifier

Portable Dehumidifier & Humidifier Imported & Local

At Comfort Air (Factory Master), we pride ourselves on being rooted in patented technology, with a legacy of over latest dehumidification and environment control solutions. Our commitment to innovation and excellence has led to the development of cutting-edge desiccant and compression-based technologies.

At Comfort Air (Factory Master), we take immense pride in our team of highly trained engineers, who back our product range with the latest technologies and world-class test facilities. This dedication to excellence has made us the preferred choice for businesses in all over the Pakistan.

We are manufacturing the desiccant Dehumidifier unit in local manufacturing facility with imported desiccant wheels according to the technical specifications of the consultant and requirement of the client. We are also manufacture the humidifier equipment for enhancing of humidity level specially for textile area laboratory OT's and extra dry areas.

We have import the compression based domestic, commercial, industrial, portable Dehumidifiers in plastic and metal body of different capacities.



Desiccant Dehumidifier



Dehumidifier



Humidifier

Portable Dehumidifier Imported & Local

Factory Master Dehumidifier (Brand of Comfort HVACR Engineering)

Cat #	36K
Voltage / Cycle	220V/50Hz
Power input (W)	710
Bucket capacity (Kg)	8
Dehumidifying capacity	30L/day (30 C, 80%RH)
N. Weight	32Kg
G. Weight	34.6Kg
Maneuverability	Push handle and wheel
Refrigerant	R22/R407c
Applied area (2.6-3m high)	30-40 sq.m.
Control type	LED display, Micro-computer
Sensor	Humidity sensor
Status indicator	Bucket full indicator light
Safety	Bucket full alarm
Unit dimension (mm)	330*445*620

Model 36B



Cat #	70K
Voltage / Cycle	220V/50Hz
Power input (W)	920
Bucket capacity (Kg)	8
Dehumidifying capacity	50L/day (30,80%RH)
N. Weight	31Kg
G. Weight	33Kg
Maneuverability	Handle and castors
Refrigerant	R22/R407c
Applied area (2.6-3m high)	40-60 sq.m.
Control type	LED display, Micro-computer
Sensor	Humidity sensor
Status indicator	Bucket full indicator light
Safety	Bucket full alarm
Unit dimension (mm)	332×486×690

Model 50B



Cat #	85K
Voltage / Cycle	220V-240V/50Hz
Power input (W)	728
Drainage method	Direct drain or Water pump
Dehumidifying capacity	60L/day (30,80%RH)
N. Weight	40Kg
G. Weight	42.7Kg
Maneuverability	Push handle and wheels
Refrigerant	R22/R407c
Applied area (2.6-3m high)	60-80 sq.m.
Control type	LED display, Micro-computer
Sensor	Humidity sensor
Safety	3-min delay protection
Unit dimension (mm)	284×586×875 (with handle)

Model 60B



Portable Dehumidifier Imported & Local

Factory Master Dehumidifier (Brand of Comfort HVACR Engineering)

Cat #	100K
Voltage / Cycle	220V/50Hz
Power input (W)	1625
Drainage method	Direct drainage
Dehumidifying capacity	90 L/day (30,80%RH)
N. Weight	53.5Kg
G. Weight	55Kg
Maneuverability	4 casters
Refrigerant	R22/R407c
Applied area (2.6-3m high)	90-100 sq.m.
Control type	LED display, Micro-computer
Sensor	Humidity sensor
Safety	3-min delay protection
Unit dimension (mm)	408×480×975

Model 90B



Cat#	120K
Voltage / Cycle	220V/50Hz
Power input (W)	2000
Drainage method	Direct drainage
Dehumidifying capacity	128 L/day (308,80%RH)
N. Weight	58Kg
G. Weight	60Kg
Maneuverability	Handle and castors
Refrigerant	R22/R407c
Applied area (2.6-3m high)	120-140 sq.m.
Control type	LED display, Micro-computer
Sensor	Humidity sensor
Safety	3-min delay protection
Unit dimension (mm)	522×463×1027

Model 28B



Cat #	240K
Voltage / Cycle	3N 380V/50Hz
Power input (W)	4150
Drainage method	Direct drainage
Dehumidifying capacity	240 L/day (30°C,80%RH)
N. Weight	161Kg
G. Weight	168Kg
Refrigerant	R22/R410a
Applied area (2.6-3m high)	240-300 sq.m.
Control type	LED display, Micro-computer
Sensor	Humidity sensor
Safety	3-min delay protection
Unit dimension (mm)	761×573×1797

Model 140B



After Sale Services

Strong Customer Services with highly skilled technical staff available 24/7 for rectification of free of cost in warranty complaints of comfort products including on payment contracting services of any other brand partners.

Comfort HVACR Engineering Services is proud to introduce itself as a complete Air Conditioning (HVAC) solution provider for better and comfortable environment. Our ambition is to become a leading company in Heating, Ventilation and Air Conditioning and to provide high class after sales and paid services. We undertake turnkey solutions for Air Conditioning needs. We deal in all kinds of domestic, commercial & industrial AC equipment, manufacturing, installation parts sales and HVAC equipment, maintenance, trouble shooting, operations & maintenance services for regular & annual basis.

- **Supply, installation & servicing of domestic, commercial, industrial Split AC Units.**
- **Supply & installation of variably refrigerant from VRF/VRV System including L & K types, Y-conector and copper piping etc.**
- **Complete design, supply, installations and maintenance of air-conditioning equipment & parts for Operation Theaters (OT's), clean rooms, labs with complete standardized laminar flow for purified bacteria free air.**
- **Central ducted package systems.**
- **Air Handling Units.**
- **Supply and installation of all type filters aluminum filter, mini-pleat, bag filter and hepa filter.**
- **Air Cooled and water cooled chillers.**
- **MS piping for chilled water including with valves and accessories.**
- **Cold storage and Refrigeration systems.**
- **Air Ducting , Air grills, diffusers, dampers and Air Balancing.**
- **Supply of spare parts for all types of equipment's.**

An effective and energy efficient Heating, Ventilation and Air conditioning system is an essential part of today's demand. Our major strength is our technical capability and confidence to provide value added services - product installations, testing commissioning, maintenance, trouble shooting and operations and preventive maintenance services according to client's specific requirement with a commitment to offer the utmost services and quality, that is both cost effective and efficient.

We would like to meet you for detail discussion and your requirements. We welcome the opportunity to work with you and we want to have a long term relationships in which trust and confidence are mutual. Thanking you and assuring you our best services at all times.

MEP CONTRACTING SERVICES

MS piping water circulation fabrication work gauges globe valve

We are able to manufacture items from stainless steel & MS piping and can provide high-end technical fabrication services. In addition to fabricating pieces for our own work, we also offer custom metal fabrication services related to mechanical contracting for other companies.

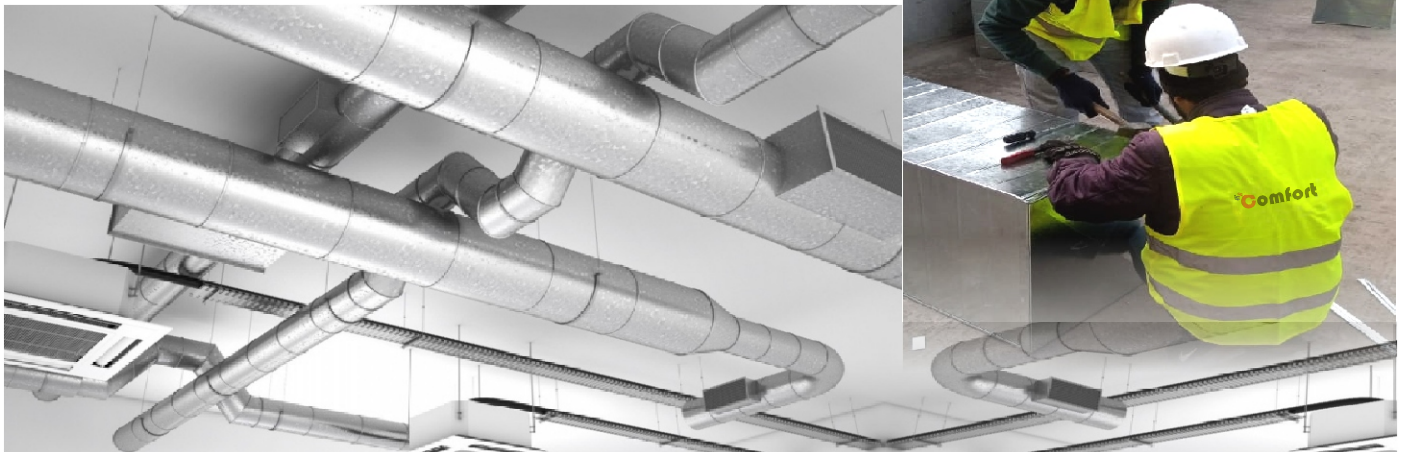


DUCT FABRICATION WORKS

We are able to manufacture items from stainless steel, GI & Aluminum sheet and can provide high-end technical fabrication services. In addition to fabricating pieces for our own work, we also offer custom metal fabrication services related to mechanical contracting for other companies.

Types of fabrication include,

- Process Ductwork
- Sheet Metal Fabrication
- Rectangular HVAC Ductwork
- Spiral HVAC Ductwork
- Supply and installation of GI & SS cable tray with & without powder paint



We deals in all kinds of sale and installation of all HVAC parts for air conditioning domestic, commercial, industrial HVAC equipments and we have in stock of complete range of imported and local spare parts for chiller, package, split ducted, cold storage, air handling parts are available at easy and affordable prices and best quality of guanine parts.

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Spare Parts

We also deals in spare motors, axial fan, propeller fan, tube axial fan, cabinet fan, fresh air fan, exhaust fan, plug fan, centrifugal fan, aluminum blowers, V-C-B fan belts, and fan motor pulley (single, double, tripl belts and complete range of ball bearings for HVAC imported & local equipments.



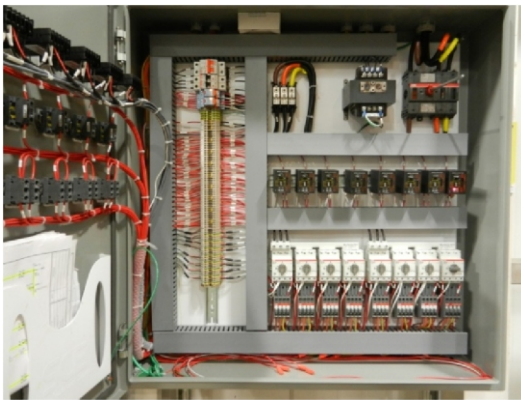
AIR DEVICES

Supply & installation of air devices including with supply air diffuser, return air grill, volume control damper VCD.



ELECTRICAL DISTRIBUTION WORK & CONTROL SYSTEMS

Comfort Engineering Services provides a solution-led service, designing custom electrical control systems and electrical control panels ECP / DB's for a diverse range of industry sectors including HVAC Heating, Ventilation and Air Conditioning.



RIGGING & CRANE SERVICES

Comfort Engineering Services Crane & Rigging Inc. is a leader in safe and reliable crane. Our team of professionals provides quality service and equipment to contractors, sub-contractors and the public. No matter the project, Comfort Engineering Services Crane & Rigging Inc. will do the heavy lifting to insure both safety and precision.



ANNUAL MAINTENANCE SERVICES

Comfort Engineering Services offers a complete suite of HVAC maintenance services suitable for a single facility a nationwide. Comfort Engineering Services is committed to excellence in performance through preventive maintenance programs tailored to meet your facility requirements. Our heating and cooling maintenance services include domestic, industrial, commercial refrigeration units, rooftop units, make-up air, precision unit for data center, chillers and more. Simply tell us your requirements.

Comfort Engineering Services has specific maintenance programs for:

- HVAC UnitsChillers
- Rooftop Units (AHU)
- VRV /VRF system
- Commercial and Industrial Refrigeration system
- Cooling tower
- Pumps
- Air control system
- BMS / BAS system
- Fan fresh air & exhaust system



HVAC Maintenance Company

- Examples of tasks performed by Comfort Engineering Services technicians:
- Quarterly filter and belt changes
- Repair leaks (Air and Water)
- 24/7 Emergency Services
- Periodic and scheduled lubrication
- Respond to comfort calls
- Routine maintenance
- Preventive maintenance
- HVAC support equipment maintenance
- System analysis
- HVAC renovation

Client benefits:

- Fewer breakdowns
- Asset optimization through longer life span
- Less utility consumption
- Better air quality
- Personal comfort



Our Satisfied Clients

Vitkovice Machinery Group Check Republic



Shifa International Hospital Islamabad



Pakistan Ordnance Factory Wah



Al-Shifa Trust Eye Hospital



Pakistan Kidney Institute (PKI)



Pakistan Television Corporation



Sadiq Poultry (Pvt.) Limited
Arsalan Poultry (Pvt.) Limited



Askari Cement Limited



OMV (Pakistan) Exploration Gesellschaft m. b. H.



D. G. Khan Cement Company Ltd.



Services Industries Limited



Pakistan Atomic Energy



Pearl Continental



Pakistan Air Force



Our Satisfied Clients

Nishat Group Pakistan



Hanif Rajput The Empire Marquee



Mistiqube (Pvt) Limited



Islamabad New International Airport



Sheikh Zayed Hospitals



Bestway Cement Limited



Fauji Cement Limited



UCH Power Private Limited



Dowell Schlumberger (Western) S.A.



Kulsum International Hospital (Saif Health Care Limited)



MIA Corporation (Pvt) Limited



JDW Sugar Mills



Pakistan Broadcasting Corporation



Marriott Hotels - Resorts - Suites



Our Satisfied Clients

Welcon Chemicals (Pvt) Ltd.



JNJ Polymer Industries (Pvt) Ltd.



Arslan Poultry Pvt. Ltd.



Style Textile (Pvt) Ltd.



Shaukat Khanum Hospital



Hamza Sugar Mills Limited



Engro Fertilizer Limited



Ferozsons Laboratories Limited



Remington Pharmaceuticals



Greaves Airconditioning (Pvt) Ltd.



Warble Chemicals (Pvt) Ltd.



Tapal Tea



Hubco Laraib Energy Limited



Qarshi



Our Partners



Our Partners







Powerful solid cooling with energy saver hermetic, reciprocating, scroll, screw, sentrifugal compressors latest technologies our new products designed for the market are a perfect Art Design of heat ventilation air conditioning refrigeration being a perfect combination of mechanical engineering and comfort engineering.



Comfort HVACR Engineering Services (Pvt) Ltd.

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Factory: Plot # 10-A, Lane # 15, Faisal Town, Gulberg Green, Islamabad.