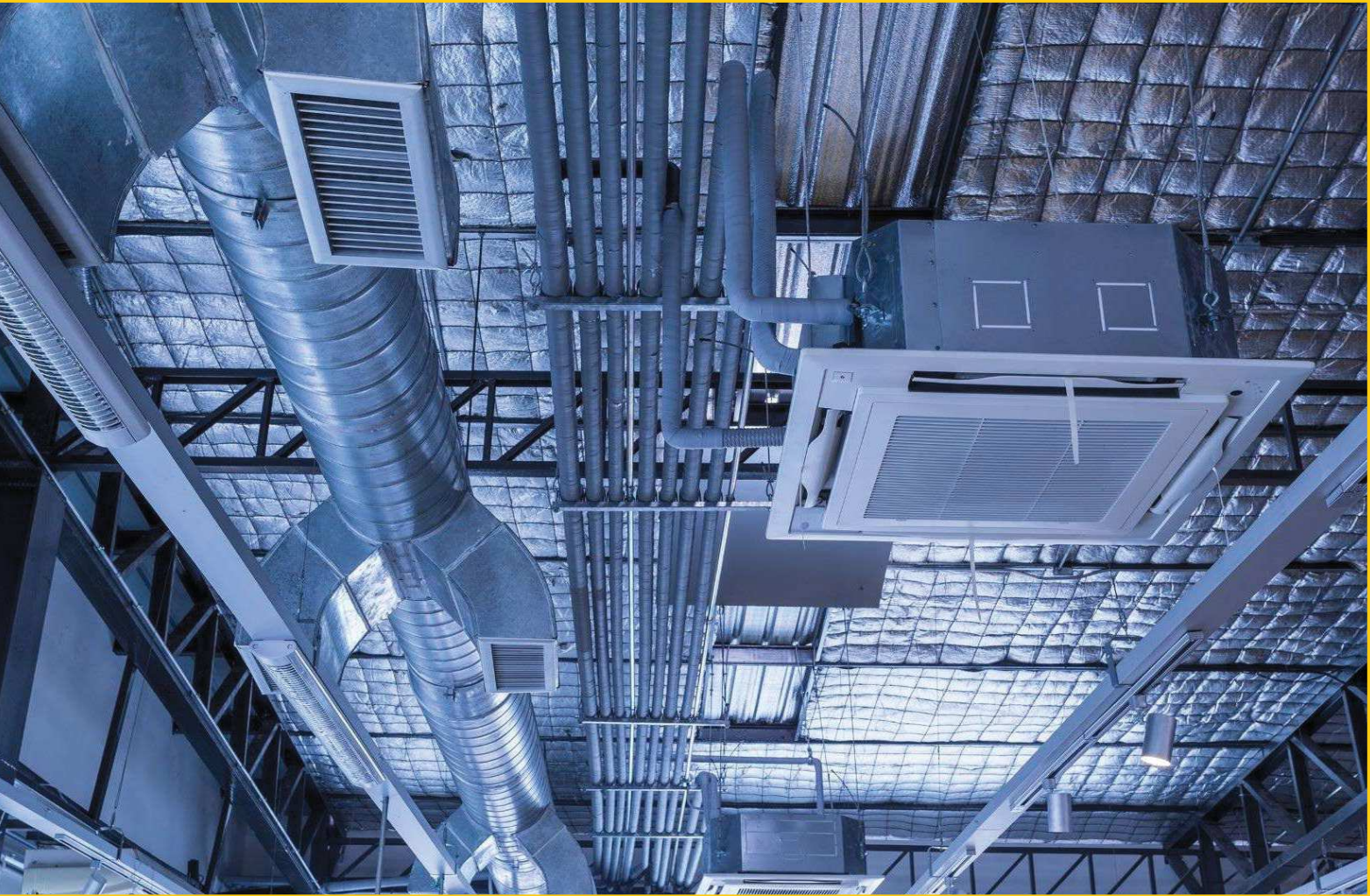




**PRIDE
ENGINEERING
NATURE
INNOVATION
DIVERSIFIED**

PROJENIX PRIVATE LIMITED
HVAC, REFRIGERATION & CLEANROOM
PROJECTS, EXPORTS, BMS

ABOUT US



PROJENIX PRIVATE LIMITED is an ISO 9001:2015 & ISO 14001:2015 certified company which deals in MEP with all kind of HVAC projects, Pharma Clean Room HVAC, Puff Panel Projects, Cold Rooms, Electrical Projects, BMS and Annual Maintenance Contracts. It has the infrastructure and strong capabilities to undertake EPIC (Engineering, Procurement, Installation and Commissioning) projects and offering comprehensive Cleanroom and Industrial solutions. An experienced team of engineers placed strategically take care of the such small/large projects.

We have successfully installed and handed over various projects in Industrial Air Conditioning, Pharmaceutical, Laboratories, Hospitals, FMCGs, Hotels, Restaurants & Banquets. Our team has wide experience working with a variety of pharmaceutical applications for end to end facility solutions viz. Oncology, Vaccines, Hormones, Liquids Orals, OSD Tablet/Capsules, Ointments, API, Labs & Injectable.

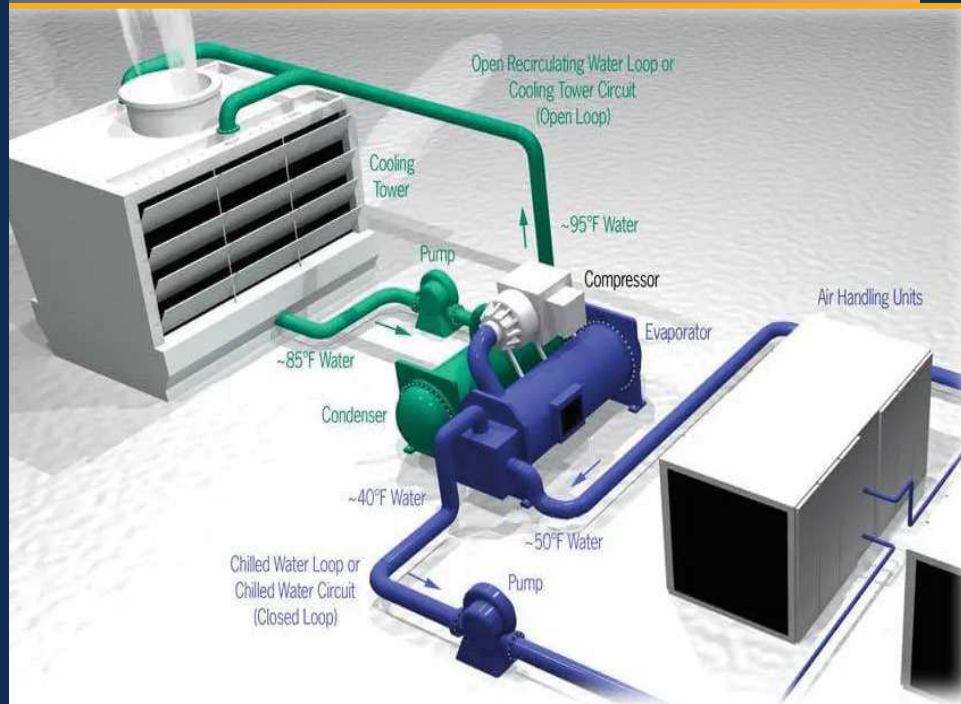
We are committed to a policy of continuous remarkable improvement and providing great Experience to our customers indeed. We focus only on providing the solutions, through sales, Engineering, Planning, Project and servicing of air conditioners.

We fulfill all requirements of a suitable MEP contractor which suits customer in all respect. Our contracting activities such as electrical, plumbing, fire-fighting and industrial projects plays an instrumental role in order to offer turnkey solutions, apart from execution of specialized industrial projects. We understand the importance and need of design before any product and hence company has a good skilled mind. The skilled manpower has a very good reach experience into HVAC and Refrigeration products.

Company has also forayed into the International Exports. Company has successfully supplied and designed HVAC projects & products into Africa, Bangladesh & Australia. Company is dedicated and committed to expanding and exponential growth in all mentioned areas...

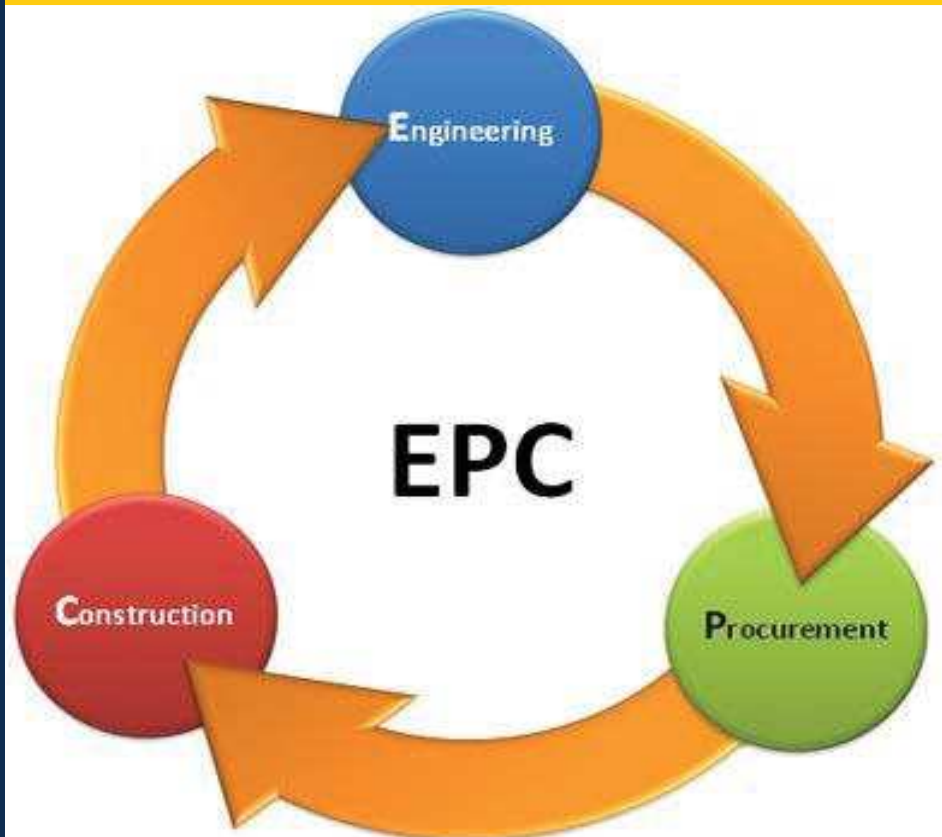
SPECIALIZED SEGMENTS

- ✓ INDUSTRIAL HVAC
- ✓ PHARMACEUTICALS HVAC
- ✓ HOSPITAL HVAC & OT MODULE
- ✓ COMFORT A.C (BANQUETS, HOTELS, RESTAURANTS, OFFICES)
- ✓ PROCESS COOLING
- ✓ VENTILATION
- ✓ COLD ROOMS
- ✓ ELECTRICAL PROJECTS
- ✓ BMS PROJECTS



TURNKEY PROJECT CAPABILITIES

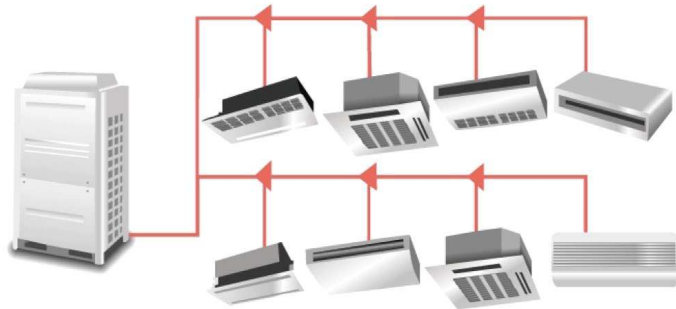
- ✓ HVAC & BMS CONTRACTING
- ✓ ENGINEERING
- ✓ PROCUREMENT
- ✓ INSTALLATION
- ✓ COMMISSIONING
- ✓ VALIDATIONS



BUSINESS SEGMENTS

CHILLERS

- ✓ CENTRIFUGAL CHILLERS
- ✓ SCREW CHILLERS
- ✓ INVERTER SCROLL CHILLERS
- ✓ PROCESS CHILLERS



VARIABLES MACHINES

- ✓ VRF / VRVS
- ✓ FREE MATCH ACS
- ✓ SIDE DISCHARGES ACS
- ✓ CASSETTE ACS
- ✓ SPLIT ACS / INVERTER ACS

PACKAGE CENTRAL ACS

- ✓ INVERTER DUCTED & PACKAGE ACS
- ✓ DUCTED SPLIT ACS
- ✓ PACKAGE FLOOR MOUNTED ACS



MODULAR COLD ROOMS



REFRIGERATION

- ✓ MODULAR COLD ROOMS
- ✓ LOW TEMPERATURE FREEZERS
- ✓ BANANA RIPENING COLD ROOMS

VENTILATION SOLUTIONS

- ✓ AIR WASHER SYSTEM
- ✓ FORCED DRAFT VENTILATION
- ✓ AIR HANDLING UNITS





Projenix provides a complete range of mechanical, electrical and plumbing for all HVAC, Refrigeration, Clean Room Solutions, Electrical & BMS segments:

AIR CONDITIONING

- Air Conditioning Plant (chilled water / Dx)
- Chilled / Condenser Water distribution system (primary/secondary/tertiary pump and insulated piping, Cooling Tower, MS pipe, etc)
- Thermal & Acoustic Insulation of ducts, underdeck/over-deck insulation.
- Power distribution boards, cabling and earthing.

VENTILATION

- Forced ventilation systems including air washers.
- Exhaust systems, Life safety systems (smoke exhaust)
- Air Distribution systems with ducts (rectangular/circular/oval)

EXPERTISE OF CLEAN ROOM

- Types / Classifications of Clean Room
- Temperature & Humidity Control
- Air Management, Contamination Control
- HVAC Low temperature & humidity, ISO class 4-8 with pressure differentials as per eGPM / eGLP.
- Complete Comprehensive solutions for HVAC Clean Room, Accessories including Pass Box, SS Furnitures, Filtration accessories etc.

VALIDATIONS

Projenix has framed SOPs for entire life cycle of a project process as design, Installation, commissioning, To adhere the stringent documentation of qualifications. We facilitate documentation on Design Qualifications (DQ), Installation Qualification (IQ), Operational Qualification (OQ) and Performance Qualification (PQ).



AFTER SALES

All machinery equipment's including all kind of air conditioning & refrigeration systems depreciate with time and in turn, they are not properly maintained, they start depreciating in terms of efficiency, high power consumption and high wear and tear. This can be avoided by regularly maintenance. **PROJENIX** offers services through Trained Personals, Practising the nature of complaints, Preventive Services & Genuine Spares through



CONTRACT MODULES:

● RISK PROTECTION CONTRACT (RPC):

This comprehensive contract includes all labour, spares and consumables. It covers routine preventive maintenance and attending to breakdowns.

● LABOUR MAINTENANCE CONTRACT (LBR):

This contract includes labour only for routine preventive maintenance and attending to breakdowns. Spares and consumables are separately charged for.

● OPERATING CONTRACTS (OPR):

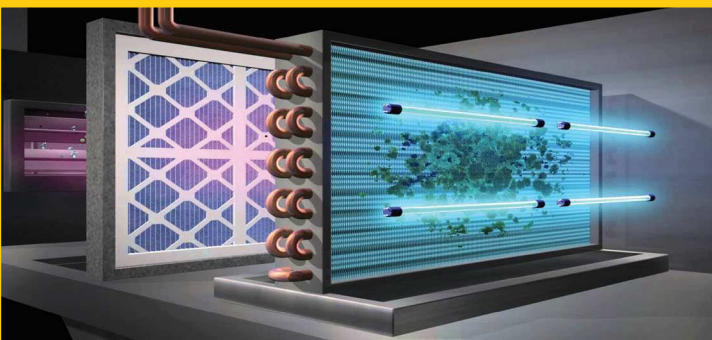
This is a pure labour contract. The operators are stationed for single, double, round the clock or 365 days shift, depending on the need. They regularly monitor operating status.

SERVICE PRODUCTS

- SPARE PARTS
- AMC CONTRACTS
- OPERATION CONTRACTS
- REVAMP/RETROFITS

UVC EMITTERS

- UVC Lights are used for disinfecting drinking water, air, pharmaceutical products, etc.
- Normal cleaning and disinfecting may leave behind some residual contamination, which UVC can treat.
- Typical Uses of UVC emitters are in the AHU, ducted systems, cassette acs & FCU.



LIST OF CUSTOMERS

PHARMACEUTICAL INDUSTRIES / CLEAN ROOM

CUSTOMERS	LOCATION	CUSTOMERS	LOCATION
SHREE RAM HEALTHCARE PVT. LTD.	BADDI	DIP POLYPLAST	BADDI
NIPER	MOHALI	PARABOLIC DRUGS	DERABASSI
VACXIGEN LIFE SCIENCES	PAONTA SHAHIB	CHEMICAL RESOURCES	DERABASSI
CHARAK PHARMA	BADDI	MARC LABORATORIES LTD	BADDI
HUHTAMAKI PPL LIMITED	BADDI	OZONE PHARMACEUTICALS LTD	BADDI
CIPLA LIMITED	ZIRAKPUR	GAG PHARMACEUTICALS	BADDI
ZEON LIFE SCIENCES	PAONTA SHAHIB	CHIROS PHARMA	SOLAN
AKUMS LIFE SCIENCES	DERABASSI,	MEDIWELL BIOTECH	BADDI
PROCTER & GAMBLE (P&G)	BADDI	SOOD RISHI PAL (RP) INDUSTRIES	LUDHIANA
INDORAMA	KALAMB	NIXI LABORATORIES PVT. LTD.	KALAMB
CSIR	CHANDIGARH	CASCA REMEDIES PVT. LTD.	AMBALA
ALKON FORMULATION	BADDI	ALLCURE LIFESCIENCES LLP	YAMUNANAGAR

MECHANICAL / ELECTRICAL INDUSTRIES

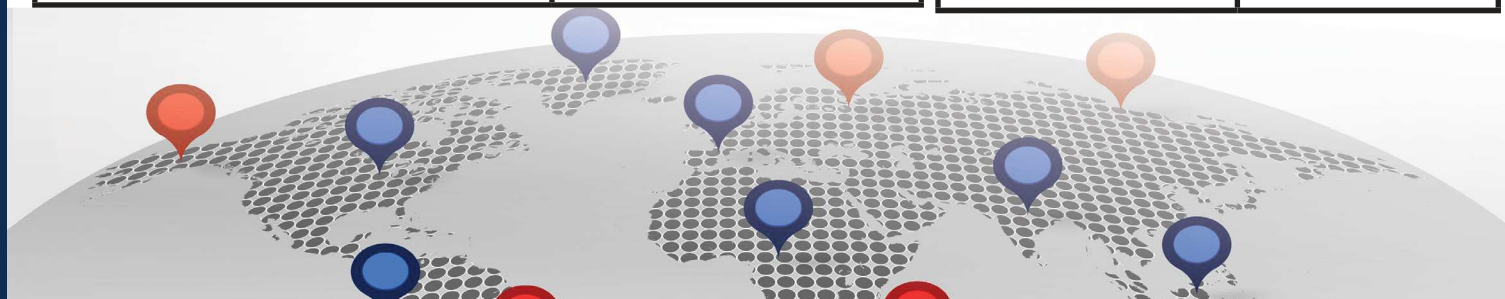
CUSTOMERS	LOCATION	CUSTOMERS	LOCATION
BHARAT ELECTRONICS LIMITED.	PANCHKULA	MIKADO CROP SCIENCES	BATHINDA
METLONICS INDUSTRIES PVT. LTD	MOHALI	POLYPLASTICS INDUSTRIES(INDIA) LTD.	CHENNAI
VIBRACOUSTIC INDIA PVT. LTD.	MOHALI	POLYPLASTICS INDUSTRIES(INDIA) LTD.	BHIWADI
SARASWATI PLASTOTECH INDIA PVT LTD	JAMMU	INDIAN OIL CORPORATION LTD(IOCL)	BATHINDA
AQUA FIBER INDUSTRIES	DERABASSI	POLYPLASTICS INDUSTRIES(INDIA) LTD.	YAMUNA-NAGAR
NABHA POWER PLANT (L&T)	RAJPURA	METRO MOTORS	AMBALA
SATIA INDUSTRIES LTD	MUKATSAR	BANSAL SPINNING MILLS	LUDHIANA
JINDAL STAINLESS STEEL	HISSAR	MORE.....	

HOTELS/RESTAURANTS/COMFORT APPLICATION /IT INDUSTRIES

CUSTOMERS	LOCATION
AVENUE SUPER MARTS (D MART)	PUNJAB
MASTERS SALON	ZIRAKPUR
SATGURU INFOTECH	MOHALI
DISTRICT BUREAU OF EMPLOYMENT	LUDHIANA
GRAND MARIAN HOTELS(P) LTD.	LUDHIANA
HOTEL SWASTIK RESORTS	JAMMU
KURUKSHETRA UNIVERSITY	KURUKSHETRA
AAHANA DECOR PVT. LTD.	KARNAL
MORE.....	

INTERNATIONAL BUSINESS PRESENCE

CITY	COUNTRY
KENYA	EAST AFRICA
UGANDA	EAST AFRICA
RWANDA	EAST AFRICA
MALI	WEST AFRICA
DUBAI	UAE
MAHE	SEYCHELLES
MAURITIUS	EAST AFRICA
TANZANIA	EAST AFRICA
MORE.....	



Air Cooled Ducted Split Air Conditioners - R3 Series

DESCRIPTION	UNITS	DSA361R3	DSA522R3	DSA661R3	DSA1021R3	DSA1321R3	DSA1982R3		DSA2642R3	
Nominal Cooling Capacity	TR	3	4.3	5.5	8.5	11	16.5		22	
	Btu/Hr	36000	52000	66000	102000	132000	198000		264000	
	K.Cal/Hr	9070	13000	16630	25704	33264	49900		66528	
Refrigerant	R 410A									
Power supply (AC)	V/Ph/Hz	380/420V, 3 ph, 50Hz	230V,Single Ph, 50Hz AC	380/ 420 V, 3 ph, 50Hz						
External Finish	Pure Polyester Power Coated GI Steel Housing									
Indoor Unit										
Dimensions (WXDXH)	mm	886 X 570 X 357	1245X730X310	1138X630X 482	1484X630X482	1839X630X482	2035X1085X552		2112X1003X864	
Power supply	V/Ph/Hz	230V,Single Ph, 50Hz AC								
Type of Blower	Centrifugal Forward Curved, Double Inlet, Double Width									
Nominal Air Flow	CMH	3040	2900	3740	5780	7480	11560		14960	
	CFM	1200	1700	2200	3400	4400	6800		8800	
Air Filter	Non Woven Polyester Media Enclosed by HDPE Mesh									
Controller	Microprocessor based with LCD Display									
Net Weight	kg.	50	56	55	75	90	150		210	
Outdoor Unit										
Dimensions (WXDXH)	mm	1020X416X652	1020X416X925	1020X416X925	1320X416X925	1437X622X919	1437X622X919	1020X416X925	1437X622X919	1437X622X919
Quantity per unit	No.	1	1	1	1	1	2 (11TR + 5.5TR)		2 (11TR + 11TR)	
Compressor Type	Rotary Type			Hermetically Sealed Scroll Type						
No. of Compressor/ODU		1	2	1	1	1	1		1	
Power Supply (AC)	V/Ph/Hz	380/420V, 3 Ph, 50HZ	230V,Single Ph, 50Hz AC	380/ 420 V, 3 ph, 50Hz						
Condenser Type	Air Cooled Fin and Tube Heat Exchanger									
Condenser Fan Type	Propeller Type									
Net Weight	kg	80	90	90	150	190	190	90	190	190

Specifications are subject to change without any notice.

Air Cooled Packaged Air Conditioners - R3 Series

DESCRIPTION	UNITS	DPA661R3	DPA1021R3	DPA1321R3	DPA1982R3		DPA2642R3		
Nominal Cooling Capacity	TR	5.5	8.5	11	16.5		22		
	Btu/Hr	66000	102000	132000	198000		264000		
	K.Cal/Hr	16630	25704	33264	49900		66528		
Refrigerant	R410A								
Power supply	V/Ph/Hz	380/ 420 V, 3 ph, 50Hz, AC Supply							
External Finish	Pure Polyester Power Coated GI Steel Housing								
Indoor Unit									
Dimensions (WXDXH)	mm	900 X 660 X 1700	1160 X 660 X 1700	1160 X 660 X 1700	1500 X 748 X 1750		1500 X 930 X 1950		
Power supply	V/Ph/Hz	380/420 V , 3 Ph, 50 Hz, AC Supply							
Type of Blower	Centrifugal forward curved, Double inlet, Double width								
Nominal Air Flow	CMH	3740	5950	7475	11215		14960		
	CFM	2200	3500	4400	6600		8800		
Air Filter	Non Woven Polyester Media Enclosed by HDPE Mesh								
Controller	Microprocessor based with LCD Display								
Compressor Type	Hermetically Sealed Scroll Type								
No. of Compressor		1	1	1	1+1		1+1		
Net Weight	kg.	195	250	270	440		500		
Outdoor Unit									
Quantity per unit	No.	1	1	1	2 (11TR + 5.5TR)		2 (11TR + 11TR)		
Dimensions (WXDXH)	mm	1020 X 416 X 925	1320 X 416 X 925	1437 X 622 X 919	1437 X 622 X 919	1020 X 416 X 925	1437 X 622 X 919	1437 X 622 X 919	
Power Supply to motor(AC)	V/Ph/Hz	230V, 1 ph, 50Hz	415 V, 3 ph, 50Hz	230V, 1 ph, 50Hz					
Condenser Type	Air cooled Fin and Tube Heat Exchanger								
Condenser Fan Type	Propeller Type								
Net Weight	kg	50	65	130	130	50	130	130	

Specifications are subject to change without any notice.

Water-Cooled Ducted Split Air Conditioners- R3 Series

DESCRIPTION	UNITS	DSW361R3	DSW661R3	DSW1322R3
Nominal Cooling Capacity	TR	3	5.5	11
	Btu/Hr	36,000	66,000	1,32,000
	K.Cal/Hr	9,072	16,630	33,264
Refrigerant		R 410A		
Power supply	V/Ph/Hz	380/ 420 V, 3 ph, 50Hz, AC Supply		
External Finish		Pure Polyester Power Coated GI Steel Housing		
Indoor Unit				
Dimensions (WXDXH)	mm	886X570X357	1138X630X 485	1839X630X485
Power supply	V/Ph/Hz	230V, Single Ph, 50Hz AC		
Type of Blower		Centrifugal Forward Curved, Double Inlet, Double Width		
Nominal Air Flow	CMH	2040	3740	7480
	CFM	1200	2200	4400
Air Filter		Non Woven Polyester Media Enclosed by HDPE Mesh		
Controller		Microprocessor based with LCD Display		
Net Weight	kg.	50	55	90
Condensing Unit				
Quantity per unit	No.	1	1	1
Compressor Type		Hermetically sealed Rotary	Hermetically Sealed Scroll	
No. of Compressors		1	1	2
Dimensions (WXDXH)	mm	666X640X521	666X640X521	1056X640X521
Power Supply	V/Ph/Hz	380/ 420 V, 3 ph, 50Hz, AC Supply		
Condenser Type		Water Cooled- Shell & Tube		
Cooling water required at 32 deg. C	USGPM	12	20	40
Net Weight	kg	120	149	200

Specifications are subject to change without any notice.

Water-Cooled Packaged Air Conditioners- R3 Series

DESCRIPTION	UNITS	DPW661R3	DPW1322R3	DPW1983R3
Nominal Cooling Capacity	TR	5.5	11	16.5
	Btu/Hr	66,000	1,32,000	1,98,000
	K.Cal/Hr	16,630	33,264	49,890
Refrigerant		R 410A		
Power supply	V/Ph/Hz	380/ 420 V, 3 ph, 50Hz, AC Supply		
External Finish		Pure Polyester Power Coated GI Steel Housing		
Dimensions (WXDXH)	mm	900X600X1700	1160X660X1700	1500X750X1750
Type of Blower		Centrifugal Forward Curved, Double Inlet, Double Width		
Nominal Air Flow	CMH	3740	7480	11210
	CFM	2200	4400	6600
Air Filter		Non Woven Polyester Media Enclosed by HDPE Mesh		
Controller		Microprocessor based with LCD Display		
Compressor Type		Hermetically Sealed Scroll		
Condenser Type		Water Cooled- Shell & Tube		
Cooling water required at 32 deg. C	USGPM	20	40	60
Net Weight	kg	240	405	605

Specifications are subject to change without any notice.

Air Cooled Packaged Air Conditioners– Inverter Type

DESCRIPTION	UNITS	DPAI-601R3A	DPAI-961R3A	DPAI-1321R3A	DPAI-1982R3A	DPAI-2642R3A
Nominal Cooling Capacity	HP	6.25	10	14	21	28
	TR	5	8	11	16.5	22
	Btu/Hr.	60000	96000	132000	198000	264000
Refrigerant		R410A				
Power supply (AC)	V/Ph/Hz	415V, 3 phase, 50Hz				
External Finish		Pure Polyester Power Coated GI Steel				
INDOOR UNIT						
Dimensions						
Width	mm	900	1160	1160	1500	1500
Depth	mm	660	660	660	750	930
Height	mm	1700	1700	1700	1750	1950
Weight of indoor unit	kg	185	235	250	410	480
Power Supply (AC)		415V, Three Phase, 50 Hz				
Type of Blower		Centrifugal forward curved, double inlet, double width				
Nominal Air flow	CFM	2200	3750	4400	6600	8800
	CMH	3740	6371	7470	11210	14940
Compressor Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11TR + 11TR)
Compressor type		Hermetically sealed Rotary DC Inverter		Hermetically Sealed Inverter Scroll	Hermetically Sealed Inverter Scroll + Fixed Scroll	
Air Filter		Non woven polyester media enclosed in HDPE mesh				
Controller		Innovative intelligent inverter controller with touch screen display				
Capacity Control		Stepless				
OUTDOOR UNIT						
Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11TR + 11TR)
Dimensions						
Width	mm	1020	1320	1435	1435 +1020	1435 +1435
Height	mm	925	925	947	947+925	947+947
Depth	mm	416	416	635	635+416	635+635
Weight	kg	50	65	130	130+50	130+130
Power Supply (AC) to motor		230V, 1 ph, 50Hz	415V, 3 ph, 50Hz		230V, 1 ph, 50Hz	
Condenser Fan type		Propeller				

Specifications are subject to change without any prior notification due to continuous product improvement

Air Cooled Ducted Split Air Conditioners– Inverter Type

DESCRIPTION	UNITS	DSAI-601R3A/B	DSAI-961R3A/B	DSAI-1321R3A/B	DSAI-1982R3A/B	DSAI-2642R3A/B
Nominal Cooling Capacity	HP	6.25	10	14	21	28
	TR	5	8	11	16.5	22
	Btu/Hr.	60000	96000	132000	198000	264000
Refrigerant		R410A				
Power supply (AC)	V/Ph/Hz	415V, 3 phase, 50Hz				
External Finish		Pure Polyester Power Coated GI Steel				
Capacity Control		Stepless				
INDOOR UNIT						
Dimensions						
Width	mm	1140	1485	1840	2035	2115
Depth	mm	630	630	630	1085	1005
Height	mm	485	485	485	555	865
Weight of indoor unit	kg.	55	75	90	150	210
Power Supply (AC)		215V, Single Phase, 50 Hz				
Type of Blower		Centrifugal forward curved, double inlet , double width				
Nominal Air flow	CFM	2200	3400	4400	6600	8800
	CMH	3740	5770	7470	11210	14940
Air Filter		Nonwoven polyester media enclosed in HDPE mesh				
Controller		Innovative intelligent inverter controller with touch screen display				
OUTDOOR UNIT						
Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11TR + 11TR)
Dimensions						
Width	mm	1020	1320	1320	1320+1020	1320+1320
Height	mm	925	925	1495	1495+925	1495+947
Depth	mm	416	416	416	416+416	416+635
Weight	kg	95	125	155	155 + 95	155+155
Compressor Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11TR + 11TR)
Compressor type		Hermetically sealed Rotary DC Inverter		Hermetically Sealed Inverter Scroll	Hermetically Sealed Inverter Scroll + Fixed Scroll	
Power Supply (AC) to motor		230V, 1 ph, 50Hz	415V, 3 ph, 50Hz		230V, 1 ph, 50Hz	
Condenser Fan type		Propeller				

Specifications are subject to change without any prior notification due to continuous product improvement



Outdoor Unit

Hi-Wall Units



Four-Way Cassettes



Compact Cassettes



One-Way Cassettes



Two-Way Cassettes



Floor Cum Ceiling Mounted Units



Verticools



Concealed Splits



Ductable IDUs



Floor Mounted Packaged Units



Air Handling Units













Heat Recovery Ventilation System





Treated Fresh Air Unit


Product Line-up: Indoor Units


Appearance	Type	0.6TR	0.8TR	1TR	1.3TR	1.5TR	1.6TR	1.7TR	2TR	2.3TR	2.5TR	2.8TR	3TR	3.2TR	4TR	5TR	6TR	8TR	10TR
	Hi-Wall Units		●	●	●	●		●	●										
	Four-Way Cassettes			●	●	●		●	●	●		●		●	●	●			
	Compact Cassettes	●	●	●	●	●													
	One-Way Cassettes	●	●	●	●	●	●		●										
	Two-Way Cassettes	●	●	●	●	●		●	●										
	Floor Cum Ceiling Mounted Units					●		●					●		●	●			
	Verticoils								●	●		●		●	●				
	Concealed Splits		●	●	●	●			●										
	Ductable IDUs					●			●		●		●		●	●	●	●	●
	Floor Mounted Packaged Units															●		●	●


Add-ons





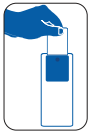





	Treated Fresh Air Unit	3.5 TR	5.5 TR	6.8 TR
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	Heat Recovery Ventilation System	300 CMH	500 CMH	900 CMH
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	AHU Kit	5 TR	6.5 TR	8 TR	10 TR	12.5 TR	15 TR	20 TR	25 TR	32 TR
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	Ceiling Mounted Ductable IDUs AHU Type	11 TR	18 TR	20 TR
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	Floor Mounted Units AHU Type	18 TR	22 TR
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Appearance	Type
	Cordless Remote Controller
	Wired Controller
	Group Controller
	WiFi-based Central Controller
	PC Monitoring System
	Keycard Controller
	Tenant Billing System
	BMS Compatibility
	Mobile App
	Remote Monitoring Service
	Data Concentrator

Outdoor Unit



DESCRIPTION	UNITS	IVRFB-7 TC/H	IVRFB-8 TC/H	IVRFB-10 TC/H	IVRFB-12 TC/H	IVRFB-14 TC/H	IVRFB-16 TC/H	IVRFB-18 TC/H	IVRFB-20 TC/H	IVRFB-22 TC/H	IVRFB-24 TCN/THN	IVRFB-26 TCN/THN	IVRFB-28 TCN/THN	
Actual Cooling Capacity At 43 °C	HP	7	8	10	12	14	16	18	20	22	24	26	28	
	TR	5.6	6.4	8	9.6	11.2	12.8	14.4	16.0	17.6	19.2	20.8	22.4	
	kW	19.7	22.5	28.1	33.8	39.4	45.0	50.6	56.3	61.9	67.5	73.1	78.8	
	Btu/hr	67200	76800	96000	144000	134400	153600	172800	192000	211200	230400	249600	268800	
Actual Heating Capacity	TR	6.2	7.0	8.8	10.6	12.2	14.1	15.7	17.6	19.4	21.1	22.9	24.6	
	kW	21.7	24.8	30.9	37.1	42.9	49.5	55.2	61.9	68.2	74.3	80.4	86.6	
	Btu/hr	74400	84000	105600	127200	146400	169200	188400	211200	232800	253440	274560	295680	
Operating Ambient Temp. Range														
Cooling Mode	°C	10 °C to 56 °C												
Heating Mode	°C	-10 °C to 24 °C												
Power Supply	380 - 420 Volts, 3 Φ, 50 Hz AC supply													
Refrigerant	R410A													
Ref. Precharge Quantity	kg	9.0	9.0	9.5	9.5	12.5	13	13.5	14	14	16	17	18	
Overall Dimensions														
Width	mm	978	978	978	978	1300	1300	1500	1500	1500	1450	1450	1450	
Depth	mm	800	800	800	800	800	800	800	800	800	800	800	800	
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	
Weight														
Net Weight(TC/TH)	kg	261/265	264/268	272/276	272/276	364/372	372/379	397/403	406/412	406/412	416/422	431/445	431/445	
Shipping Weight (apprx.) (TC/TH)	kg	274/278	277/281	285/289	285/289	383/391	391/398	418/424	426/433	426/433	438/444	453/467	453/467	
Sound Level	dB(A)	56	57	58	60	63	64	66	67	67	68	69	69	
Compressor Type	Hermetically sealed scroll DC inverter driven													
No. of Compressors	No.	1	1	1	1	2	2	2	2	2	2	2	2	
Ref. Pipe Connections														
Liquid	mm/in	Φ 9.5/ 3/8	Φ 9.5/ 3/8	Φ 9.5/ 3/8	Φ 12.7/ 1/2	Φ 12.7/ 1/2	Φ 12.7/ 1/2	Φ 15.9/ 5/8	Φ 15.9/ 5/8	Φ 15.9/ 5/8	Φ 15.9/ 5/8	Φ 19.05/ 3/4	Φ 19.05/ 3/4	
Gas	mm/in	Φ 19.05/ 3/4	Φ 19.05/ 3/4	Φ 22.2/ 3/4	Φ 28.6/ 1 1/4	Φ 28.6/ 1 1/4	Φ 28.6/ 1 1/4	Φ 28.6/ 1 1/4	Φ 28.6/ 1 1/4	Φ 28.6/ 1 1/4	Φ 28.6/ 1 1/4	Φ 34.9/ 1 3/8	Φ 34.9/ 1 3/8	
Oil	mm/in	Φ 6.35/ 1/4												
Air-Cooled Condenser														
Type	Tube fin type													
Fan Type	Axial flow													
No. of Fans	1						2							
Air Quantity	CFM	7000	7000	7000	7000	9000	10200	12300	12300	12300	13800	13800	13800	
Motor Type	Brushless DC type													
Quantity	No.	1						2						
Power supply	230 Volts, 1 Φ, 50 Hz AC supply													

Notes:

1. Actual cooling capacities delivered are based on the following conditions:
Indoor temperature: 27°CDB, 19°CWB; Outdoor temperature: 43°CDB; Piping length: 10m, Height difference: 0m.

2. Actual heating capacities delivered are based on the following conditions:
Indoor temperature: 20°CDB; Outdoor temperature: 7°CDB, 6°CWB; Piping length: 10m, Height difference: 0m.

Specifications are subject to change due to continuous product improvement

* The given sound level data are based on the measurements taken in an anechoic chamber and the actual sound levels may vary depending on the environmental noise conditions.

OUTDOOR UNITS

Technical Specifications:



DESCRIPTION	UNIT	IVRFB-04SC/SH	IVRFB-05SC/SH	IVRFB-06SC/SH	IVRFB-08SC/SH	IVRFB-10SC/SH	IVRFB-12SC/SH	IVRFB-14SC/SH	IVRFB-16SC/SH
Capacity	HP	4	5	6	8	10	12	14	16
Nominal Cooling Capacity	TR	3.2	4	4.8	6.4	8	9.6	11.2	12.8
	kW	11.2	14.0	16.9	22.4	28.0	33.6	39.4	45.0
Nominal Heating Capacity-SH models	kW	12.4	15.5	18.6	24.8	31.0	37.0	43	49.5
Dimensions (WxDxH)	mm	900 x 350 x 1215	900 x 350 x 1215	900 x 350 x 1215	1020 x 420 x 1465	1020 x 420 x 1465	1020 x 420 x 1465	1320X420X1640	1320X420X1640
Net Weight- SC/SH	kg	95/97	101/103	111/114	153/156	163/166	176/180	232/238	235/240
Operating Temperature Range	Cooling Mode	10 deg.C to 56 deg. C							
	Heating Mode	-10 deg.C to 24 deg. C							
Electrical Power Supply		220-240/1PH/50Hz ±10%			380-415/3PH/50Hz ±10%				
Refrigerant		R410A							
Refrigerant Pre Charge Qty.	kg	3.3	3.7	4.2	5.7	7.9	8.2	9.5	9.8
Sound Pressure Level	dB(A)	57	57	58	59	60	60	61	61
Max. no. of IDUs	No.	7	9	10	14	17	21	24	28
Compressor	Quantity- No.	1	1	1	1	1	1	1	1
	Type	Hermetically Sealed Twin Rotary DC Inverter						Hermetically Sealed DC Inverter Scroll	
Type of Condenser		Tube Fin Type Air cooled							
Fan Type		Axial Flow Type							
No. of Fan		1	1	1	2	2	2	2	2
Air Quantity	CFM	4000	4000	4000	5500	6400	6400	7700	7700
Motor Type		Brushless DC							
Motor Quantity		1	1	1	2	2	2	2	2
Power Supply to Motor		230V, 50Hz, Single Phase							
Field Suction Pipe-OD	mm	Φ15.9	Φ15.9	Φ18.01	Φ22.2	Φ22.2	Φ28.6	Φ28.6	Φ28.6
Field Liquid Pipe-OD	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7

Note:

- Nominal cooling capacities are based on the following conditions:
Indoor temperature: 27°CDB, 19°CWB; Outdoor temp.: 35°CDB, 25°CWB; Piping length: 10m, Height difference: 0m.
- Nominal heating capacities are based on the following conditions:
Indoor temperature: 20°CDB; Outdoor temp.: 7°CDB, 6°CWB; Piping length: 10m, Height difference: 0m.
- The values given in the table for noise levels are based on measurement taken in anechoic chamber and may vary as per the actual ambient noise conditions.
- Specifications are subject to change without prior notice due to continuous product improvement.

Air Cooled and Water Cooled Scroll Chillers

Air Cooled Scroll Chillers

Blue Star is a pioneer in manufacturing air cooled scroll chillers. These systems are popular in many commercial applications such as offices, hotels, hospitals, industries, etc. due to their distinct advantage of multiple refrigeration circuits with hermetic scroll compressors, compactness and service-friendliness. These chillers comprise of DX cooler, air cooled condenser with fan and multiple hermetic scroll compressors.



Water Cooled Scroll Chillers

Wherever water can be provided, Blue Star's water cooled scroll chillers offer higher efficiency than air cooled systems as water is a superior cooling medium compared to air. These chillers comprise of cooler, multiple hermetic scroll compressors and Shell & Tube water cooled condenser. Because of their higher efficiency, water cooled chillers consume lower power compared to air cooled systems.



Air cooled R407C

Description		Unit	Model					
			XAC2S-010R2	XAC2S-024MAR2	XAC3S-036MAR2	XAC2YS-048AR2	XAC2YS-060R2	XAC2YS-080AR2
Nominal Cooling Capacity		TR	9.5	23	34	46	56	74
Refrigerant			R407C	R407C	R407C	R407C	R407C	R407C
Capacity Control		%	100,50	100,50	100,67,33	100,75,50,25	100,67,33	100,75,50,25
Nominal Dimension	Length	mm	1762	2234	3355	2900	2900	2900
	Width	mm	930	1147	1147	2040	2040	2040
	Height	mm	1513	1696	1696	2460	2460	2460
Net Weight/Unit (approx.)		Kg.	625	925	1375	2090	2200	2400
Power Supply			380-420V/3Ph,50Hz AC					
No. of Compressors			2	2	3	4	3	4
No. of Refrigerant Circuit			2	2	3	2	2	2
Total Power Consumption		kW	11.4	26.6	40.0	55.6	71.4	95.2
Fan	Quantity		2	2	3	2	3	4
	Dia.	mm	610	660	660	915	915	915
Condenser Coils	Face Area	Sq mtr. (Sq. ft.)	2.23 (24)	3.75 (40)	5.57 (60)	8.24 (88.7)	8.24 (88.7)	8.24 (88.7)
	Rows		2	3	3	3	2+4	4
	Type		3/8" OD Inner Grooved and Super Slit Fins					
Cooler (shell & Tube type)	Qty		Twin Circuit	Twin Circuit	Three Circuit	Twin Circuit	Twin Circuit	Twin Circuit
Water Flow Rate	Min	USGPM	17	39	59	78	90	120
	Max	USGPM	33	78	117	144	180	240
Water Connection/Cooler	In/Out	No.	1	1	1	1	1	1
	Size		1-1/2" NB	3" NB	3" NB	4" NB	4" NB	4" NB

New Air Cooled Modular Range

Description		Unit	Model		
			XAC4S-048MAR2	XAC5S-060MAR2	XAC6S-072MAR2
Nominal Cooling Capacity		TR	46	56	68
Refrigerant			R407C	R407C	R407C
Capacity Control		%	100,75,50,25	100,80,60,40,20	100,84,67,50,33,17
Nominal Dimension	Length	mm	4488	5609	6730
	Width	mm	1147	1147	1147
	Height	mm	1696	1696	1696
Net Weight/Unit (approx.)		Kg.	1850	2300	2750
Power Supply			380 - 420V/3Ph, 50Hz AC		
No. of Compressors			4	5	6
No. of Refrigerant Circuit			4	5	6
Total Power Consumption		kW	4	5	6
Fan	Quantity		660	660	660
	Dia.	mm			
Condenser Coils	Face Area	Sq mtr. (Sq. ft.)	7.5 (80)	9.32 (100)	11.14 (120)
	Rows		3	3	3
	Type		3/8" OD Inner-Grooved and Super Slit Fins		
Cooler (shell & Tube type)	Qty		2	2	2
Water Flow Rate	Min	USGPM	39	39	59
	Max	USGPM	156	195	234
Water Connection/Cooler	In/Out	No.	2	2	2
	Size		3" NB	3" NB	3" NB

Rating Conditions

1. Cooler Leaving Temp 6.7°C (44°F) and Cooler Entering Temp 12.2°C (54°F)
2. Cooler Fouling Factor 0.0001°F.ft².hr/Btu
3. 35°C (95°F) Ambient Temperature

Specifications are subject to change due to continuous product development

Water cooled R22

Description		Unit	Model				
			XWC2S-011	XWC2S-026A	XWC3S-039A	XWC4S-052A	XWC4S-085A
Nominal Cooling Capacity		TR	11.5	26	39.0	52.0	85.0
Refrigerant			R22	R22	R22	R22	R22
Capacity Control		%	100,50	100,50	100,67,33	100,75,50,25	100,75,50,25
Nominal Dimension	Length	mm	1700	2250	2250	2250	2496
	Width	mm	550	1234	1234	1333	1375
	Height	mm	1455	1607	1956	1956	2087
Net Weight/Unit (approx.)		Kg.	650	960	1350	1780	2510
Power Supply			380-420V/3Ph,50Hz AC				
No. of Compressors			2	2	3	4	4
No. of Refrigerant Circuit			2	2	3	4	4
Condenser Water Flow Rate	Min	USGPM	28.6	67.6	101.4	135.2	221
	Max	USGPM	38.5	91	136.5	182	297.5
Cooler (shell & Tube type)	Qty		Twin Circuit	Twin Circuit	Three Circuit	2#Twin Circuit	2#Twin Circuit
Cooler Water Flow Rate	Min	USGPM	17	39	59	78	128
	Max	USGPM	33	78	117	156	255
Water Connection/Cooler	In/Out	No.	1	1	1	1	1
		Size	1-1/2"NB	3"NB	3"NB	3"NB	4"NB

Water cooled eco-friendly range

Description		Unit	Model					
			XWC2S-011R2	XWC2S-026AR2	XWC3S-039AR2	XWC4S-052AR2	XWC2YS-065AR3	XWC4S-085AR2
Nominal Cooling Capacity		TR	11.0	25.5	38.0	51.0	65.0	84.0
Refrigerant			R407C	R407C	R407C	R407C	R410A	R407C
Capacity Control		%	100,50	100,50	100,67,33	100,75,50,25	100,75,50,25	100,75,50,25
Nominal Dimension	Length	mm	1700	2250	2250	2250	2500	2496
	Width	mm	550	1234	1234	1333	1229	1375
	Height	mm	1455	1607	1956	1956	1607	2087
Net Weight/Unit (approx.)		Kg.	650	960	1350	1780	1450	2510
Power Supply			380-420V/3Ph,50Hz AC				400V(+/-10%), 3 PH., 50HZ	380-420V/3Ph, 50Hz AC
No. of Compressors		No.	2	2	3	4	4	4
No. of Refrigerant Circuit		No.	2	2	3	4	2 (Tandem)	4
Condenser Water Flow Rate	Min	USGPM	28.6	67.6	101.4	135.2	130	221
	Max	USGPM	38.5	91	136.5	182	240	297.5
Cooler (shell & Tube type)	Qty		Twin Circuit	Twin Circuit	Three Circuit	2#Twin Circuit	Twin Circuit	2#Twin Circuit
Cooler Water Flow Rate	Min	USGPM	17	39	59	78	90	128
	Max	USGPM	33	78	117	156	190	255
Water Connection/Cooler	In/Out	No.	1	1	1	1	1	1
		Size	1-1/2"NB	3"NB	3"NB	3"NB	4"NB	4"NB

Rating Conditions

1. Cooler Leaving Temp 6.7°C (44°F) and Cooler Entering Temp 12.2°C (54°F)
 2. Cooler Fouling Factor 0.0001°F.ft².hr/Btu
 3. Condenser Entering Water Temp 29.44°C (85°F)
 4. Condenser Fouling Factor 0.00025°F.ft².hr/Btu
- # Specifications are subject to change due to continuous product development

Blue Star Inverter Scroll Chillers – An Innovative Design

The Blue Star Inverter Scroll Chiller is a hybrid system designed with a variable capacity inverter scroll compressor combined with multiple fixed speed scroll compressors. The advanced controllers use unique logic which optimizes the workings of the required number of fixed speed compressors and inverter compressor at various load conditions.

PRODUCT RANGE:



AIR-COOLED



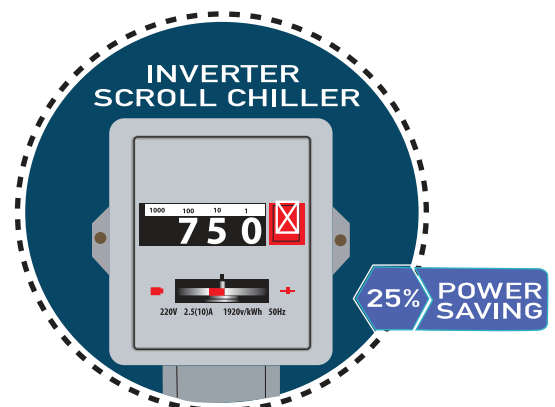
WATER-COOLED



Key Features:

The following components have been carefully designed and selected to deliver optimum cooling, maximum efficiency and high system reliability:

- Inverter & Fixed speed scroll compressors
- Inverter drives
- Intelligent controller
- High efficiency heat exchangers



Technical Specifications

DESCRIPTION	UNITS	XAC2VS-012MR3	XAC2VS-024MR3	XAC2VS-036MR3	XAC2VS-048MR3	XAC2VS-060MR3	XAC2VS-072MR
Nominal Cooling Capacity	TR	12	24	36	48	60	72
Quantity of Compressors	Nos.	2	2	3	4	5	6
Type		Hermetically Sealed Scroll					
Motor Type		Refrigerant Cooled , 3 Ph, 2 Pole Squirrel Cage Induction Motor					
Operating Speed	RPM	2900					
Electrical Power Supply		400V(+/-10%), 3Ph,50Hz					
Condenser							
Tube Material		Copper					
Fin Material		Aluminium					
Quantity of Fan	Nos.	1	2	3	4	5	6
Condenser Fan Motor Details							
Type		Totally Enclosed, Pad Mounted					
Quantity	Nos.	1	2	3	4	5	6
Speed	RPM	910					
Airflow Quantity	CFM	9000	18000	27000	36000	45000	54000
DX Cooler							
Tube Material		Copper					
Water Connection Size In/Out	mm	50	80				
No. of Refrigerant Circuit	Nos.	2	2	3	4	5	6
Overall Dimensions							
Length	mm	1285	2500	3700	5000	6200	7400
Width	mm	1050					
Height	mm	1917					

Note : Pl refer GA drawings for exact dimension

Technical Specifications

DESCRIPTION	UNITS	XWC2VS-013AR3	XWC2VS-026AR3	XWC2YVS-039AR3	XWC2YVS-052AR3	XWC2YVS-065AR3	XWC3YVS-078AR3
Nominal Cooling Capacity	TR	13	26	39	52	65	78
Quantity of Compressors	Nos.	2	2	3	3	3	4
Type		Hermetically Sealed Scroll					
Motor Type		Refrigerant Cooled , 3 Ph, 2 Pole Squirrel Cage Induction Motor					
Operating Speed	RPM	2900					
Electrical Power Supply		400V(+/-10%), 3Ph, 50Hz					
Flooded - Condenser							
Tube Material		Copper					
No. of Pass (Water Side)	Nos.	4	4	2	2	2	2
No. of Refrigerant Circuit	Nos.	2	2	2	2	2	3
DX Cooler							
Tube Material		Integral Finned Copper Tubes					
No. of Pass (Ref. Side)	Nos.	4	2	2	2	2	2
No. of Refrigerant Circuit	Nos.	2	2	2	2	2	3
Overall Dimensions (Approx)							
Length	mm	2340	2340	2340	2650	2650	2650
Width	mm	1000	1065	1065	1065	1065	1075
Height	mm	1275	1450	1450	1600	1600	1700

Note : Pl refer GA drawings for exact dimensions



CERTIFICATE

This is to certify that the
Quality Management System of

Projenix Private Limited

1st Floor, SCO - 35, Chaura Bazar, Zirakpur, SAS Nagar, Punjab - 140603, India

has been assessed and found to conform to the requirements of

ISO 9001:2015

This Certificate is valid for the following scope:

DESIGN, SUPPLY & ERECTION OF HVAC, REFRIGERATION, CLEAN ROOM, PUFF PANEL, ELECTRICAL PANEL, ELECTRICAL COMPONENTS - PROJECTS, PRODUCTS, AFTER SALES-SERVICE. IMPORT & EXPORTS OF HVAC ITEMS, CHILLERS, VRV, PACKAGE, VENTILATION UNITS, AIRDISTRIBUTION PRODUCTS, DUCTS, FILTERS, ELECTRONICS & ELECTRICAL GOODS.

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Issue Date :15/03/2023
Expiry Date :10/03/2026
Recertification Date :10/03/2026




Director

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Environmental Management System of

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1st Floor, SCO - 35, Chaura Bazar, Zirakpur, SAS Nagar, Punjab - 140603, India

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