

Thermal Management System



**Your Critical Cooling
Solution Partner ...**



Experience the world class technology in industrial precision cooling for electrical enclosure and process equipments.



Infokool Solution is specializing in Designing, Developing, Producing and supplying the Cooling system for varieties of precision cooling and Industrial Refrigeration applications. Especially designed High Sensible , High energy efficient and tropicalized to Indian high ambient condition units for Telecom equipment cooling ,BTS Shelter, server rooms ,electronic enclosures and Industrial process machineries are perfect fit to your desire of a low initial and lesser operational cost solution.

Infokool solution continuously invests time and resources in its own R&D for innovation and focused towards latest technology trends. The company is enriched with its 18 years of cooling expertise spread from Telecom, Industrial and Precision segments.

We infokool, stand for technologically customised product best suit to a given requirements and customer satisfaction.

Why any machine or equipment needs special cooling attention !

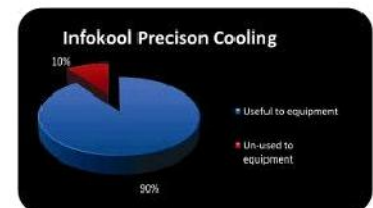
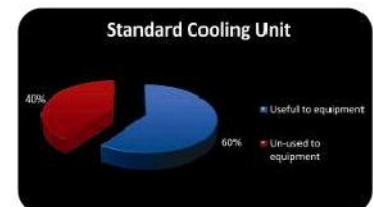
Cooling solution for Electrical / Electronic enclosure / Telecom / Server room needs a different kind of treatment compared to any other application since :



- Equipments dissipate dry heat (we call it sensible heat) and does not sweat like human being. Cooling system design is entirely different for such applications.
- It requires mostly very precise control over Temperature, Humidity and air contamination.
- Your equipments are very costly and you cannot afford any downtime, thus protection against Voltage fluctuation, High/Low ambient temperature, over/Under load etc to be highest priority as functional need for product design.
- Unlike the comfort cooling which does not run all the time, your equipments may be running 24x 7 round the year. Thus stamina matters.
- Electricity will soon become a luxury. Your cooling system working day and night can put you into sleepless nights. Optimisation to low operating cost (OPEX) is a prime focus while designing product for equipment cooling solution.

FEATURES

Infokool cooling systems design is match to the heat rejection pattern for typical electronic / electrical / telecom equipments. Its provide maximum of Sensible cooling effect to maximise the cooling effect.



High static backward fans are enable to push hot air into Cooling equipment. Infokool Units are equiped with these fans capable not only for delivering large volume of air at high static, but also are best in class for its efficiency. Last but not least they can be operate at variable speed to save the operating cost while under load condition.

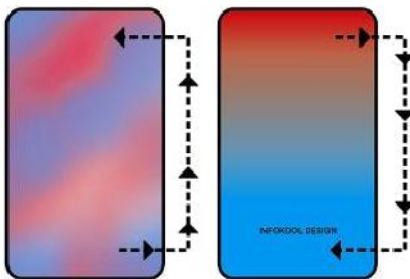
Infokool units are featured with Inner grooved tube and specially profiled aluminium fins to enhance the efficiency of system.



Fully Programmable Microprocessor controllers ensure smooth operation and monitoring the system parameters round the clock. They provide high end safety management facility with remote monitoring options.

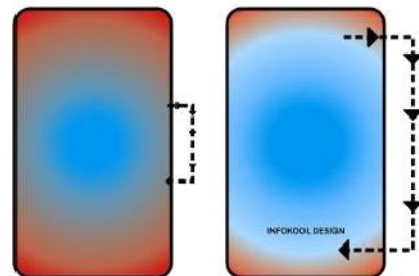
FEATURES

Aesthetics of Infokool units are matched to your world class equipments and appealing to surrounding environment. ►



◀ Air path in Infokool system are designed in-line with natural upward air flow of hot air. This ensures uniform gradient temperature inside the equipment cabinet.

We maintain longest path between supply and return air to equipment. This ensures no hot spots and very uniform air flow pattern within the cabinet. ►



◀ Hermitically sealed Reciprocating / Rotary compressors are used along with safety device like High / Low pressure switch and Over load protectors to ensure trouble free operation and longer product life.

230VAC Side Mount Panel Air Conditioner

PAC03-A / PAC05-A

Features

- GI Powder coated body
- High sensible cooling
- High static backward curved fan
- Fully programmable micro-controller
- Inbuilt safety for High / Low temperature & Voltage,
- Over / Underload protection.
- High / Low pressure switch
- Vandal proof for outdoor application
- Down discharge
- Alarms for critical failure

Application

- Computer room / Telecom shelter
- CNC Machine / Control panels
- Street Cabinet cooling
- Small equipment room
- Small server



Technical Specification

Description		Unit	PAC03-A	PAC05-A
Cooling Capacity	L35L35	Watts	300	500
	L35L50	Watts	230	380
Power Supply		V/Ph/Hz	230V/1/50	
Rated Current		Amps	1.3	2.4
Start-up-Current		Amps	7.8	14
Air Flow		M ³ /hr	175	255
Power Consumption	L35L35	Watts	225	300
	L35L50	Watts	250	345
Operating Temperature Range		Deg C	20-55	
Unit Dimension				
	Width	mm	320	
	Depth	mm	265	
	Height	mm	520	
Unit Weight		Kgs	19	25
Protection Category	Internal		IP54	IP54
	Circuit			

230VAC Side Mount Panel Air Conditioner

PAC10-A / PAC15-A / PAC20-A / PAC25-A / PAC30-A

Features

- GI Powder coated body
- High sensible cooling
- High static centrifugal fan
- Fully programmable micro-controller
- Inbuilt safety for High / Low temperature & Voltage,
- Over / Underload protection.
- High / Low pressure switch
- Vandal proof for outdoor application
- Down discharge
- Alarms for critical failure

Application

- Computer room / Telecom shelter
- CNC Machine / Control panels
- Outdoor Cabinet cooling
- Small equipment room
- Small server



Technical Specification

Description	Unit	PAC10-A	PAC15-A	PAC20-A	PAC25-A	PAC30-A
Cooling Capacity	L35L35	Watts	1000	1500	2000	2500
	L35L50	Watts	760	1160	1700	2125
Power Supply	V/Ph/Hz	230V/1/50				
Rated Current	Amps	2.8	4.6	5	6	7
Start-up-Current	Amps	15	20	20	24	28
Air Flow	M ³ /hr	550	550	575	700	850
Power Consumption	L35L35	Watts	540	840	950	1200
	L35L50	Watts	620	950	1090	1380
Operating Temperature Range	Deg C	20-55				
Unit Dimension						
	Width	mm	425			500
	Depth	mm	320			420
	Height	mm	1250		1600	
Unit Weight	Kgs	45	50	55	60	70
Protection Category	Internal	IP54				
	Circuit					

48VDC Side Mount Panel Air Conditioner

PAC03-D / PAC05-D / PAC07-D / PAC10-D / PAC15-D / PAC 20-D

Features

- GI Powder coated body
- High sensible cooling
- High static backward curved fan
- Fully programmable micro-controller
- Inbuilt safety for High / Low temperature & Voltage
- Over / Underload protection.
- High / Low pressure switch
- Vandal proof for outdoor application
- Down discharge
- Alarms for critical failure
- Can connect to solar application
- High EER
- No need for inverter.
- Variable speed compressor, fans and DC operation gives unmatched combination for high efficiency
- OPEX saving while free and active cooling



Application

- Best suit for telecom 48VDC sites
- As battery cooler to enhance battery life.
- ODC where no Grid power.

Technical Specification

Description	Unit	PAC03-D	PAC05-D	PAC07-D	PAC10-D	PAC15-D	PAC20D
Cooling Capacity	L35L35	300	500	700	1000	1500	2000
	L35L50	230	380	530	760	1160	1450
Power Supply	V/Ph/Hz	48V DC					
Rated Current	Amps	1.3	2.4	2.6	2.8	4.6	6.5
Air Flow	M ³ /hr	175	255	350	550	575	575
Power Consumption	L35L35	225	300	435	540	840	1100
	L35L50	250	345	480	620	950	1230
Operating Temperature Range	Deg C	20-55					
Unit Dimension							
	Width	mm	320	400	520	425	
	Depth	mm	275	275	175	220	320
	Height	mm	580	750	1250	1600	
Unit Weight	Kgs	19	25	30	48		
Protection Category	Internal	IP54					
	Circuit						

Air Conditioner With Emergency and Free Cooling

PAC-15A-EFC / PAC-30A-EFC / PAC-50A-EFC / PAC-70A-EFC

Features

- GI Powder coated body
- High sensible cooling
- High static backward curved fan
- Fully programmable micro-controller
- Inbuilt safety for High / Low temperature & Voltage
- Over / Underload protection.
- High / Low pressure switch
- Vandal proof for outdoor application.
- Down flow
- Variable speed Fan
- Energy saving by free cooling
- Emergency cooling when no grid power.
- Alarms for critical failures

Application

- Computer room
- Telecom shelter
- CNC Machine control panels
- Outdoor Cabinet cooling
- Small equipment room
- Small server
- EFC unit is suitable where ambients are Low during some period of the year.



Technical Specification

Description	Unit	PAC-15A-EFC	PAC-30A-EFC	PAC-50A-EFC	PAC-70A-EFC
Mounting		Vertical	Vertical	Vertical	Vertical
Air delivery		Bottom Throw	Bottom Throw	Bottom Throw	Bottom Throw
Cooling Capacity	Watts TR	1500	3000	-	-
Air Flow		250 CFM	475 CFM	800 CFM	1000 CFM
Operating Ambient range	Deg C	20-50 C	20-50 C	20-50 C	20-50 C
Operating Power	230 VAC / 1/50Hz (Fan & Controllers will operate on 48VDC)				
Unit Feature	High Sensible cooling				
	Inbuilt - Emergency and Free cooling				
	Under and Over load protection				
	High efficiency plug Fans				
	Service free operation				
	Compact Design				
	Inbuilt Controller				
	High Temp/Low temp. Alarm				
	Under and over voltage Protection				
	HP Switch				
Power consumption	Watts	675	1300	2150	2750
Protection category	External circuit IP 34 / Internal Circuit IP 54				
Duty Cycle	%	100%	100%	100%	100%
Unit size					
Width	mm	650	650	900	900
Height	mm	1300	1600	1800	1800
Depth	mm	320	320	690	690
Unit Weight	kgs	45	65	90	110
Start up current	Amps	3.4	7	21	30

19" Rack Mount Air Conditioner

RAC10-A / RAC20-A

Features

- 19"mountable
- GI Powder coated body
- High sensible cooling
- High static backward curved fan
- Fully programmable micro-controller
- Inbuilt safety for High / Low temperature,
- High / Low Voltage,Over / Underload protection.
- High / Low pressure switch
- Flow matched to server heat dissipation pattern.
- Automated condensate management.
- Alarms for critical failure

Application

- Small server room
- Small office / Factory
- Retails
- Online booking offices
- High density rack within data center.



Technical Specification

Description		Unit	RAC10-A	RAC20-A
Cooling Capacity	L35L35	Watts	1000	2000
	L35L50	Watts	850	1700
Power Supply		V/Ph/Hz	230V/1/50	
Rated Current		Amps	3.8	7
Start-up-Current		Amps	10	25
Air Flow		M ³ /hr	475	765
Power Consumption	L35L35	Watts	600	1200
	L35L50	Watts	675	1350
Operating Temperature Range		Deg C	20-55	
Unit Dimension				
	Width	mm	445	
	Depth	mm	900	
	Height	mm	360	
Unit Weight		Kgs	50	70
Protection Category	Internal		IP54	
	Circuit		IP34	

Side Mount Air to Air Heat Exchanger

HEX035 / HEX100 / HEX130 / HEX150 / HEX200

Features

- IP54 solution
- Very low operational cost
- Almost nil maintenance cost
- Variable speed Fan
- 48 VDC operation suit to specific application
- Slim pack design
- No compressor and refrigerant
- High / Low temperature and Fan failure Alarm.

Application

- Telecom Outdoor Cabinets
- Switch Units.
- Electronic enclosures.
- Telecom shelters.
- Electrical Panels



Technical Specification

Description		HEX035	HEX100	HEX130	HEX150	HEX200
Cooling Capacity	W/K	35	100	130	150	200
Power Supply		48V DC				
Internal Air Flow	M ³ /hr	255	510	765	900	2750
Power Consumption	Watts	65	150	185	210	480
Operating Temperature Range		5-60 Deg C / 0-100%RH				
Unit Dimension WxDxH		500 X 174 X 305	400 X 160 X 1160	510 X 210 X 1260	510 X 210 X 1370	540 X 300 X 143
Internal Static	P3	Less than 100				
Fan		Backward curved high static fan				
Noise level	dB	47	52	57	60	68
Unit Weight	Kgs	15	35	42	48	60
Protection Category		IP54				

Models are also available in 230VAC

48VDC Stand Alone Free Cooling Unit

QKU-500 / QKU-1000 / QKU-1200 / QKU-2000

Features

- GI Powder coated
- High static fans
- Variable speed fan
- Electronic controller
- Damper operated
- Optional remote monitoring
- Easy to install
- Both option blow and suck design based on requirement.
- Both option 230VAC & 48 VDC operated
- Single and Twin Blower
- Can handle up to 3 air conditioner
- Controller with inbuilt fire, door, AC failure, grid failure alarm
- DG delay can be set

Application

- Telecom shelter
- Energy saving device for any closed electronic enclosures
- BTS station
- Small server room.



Technical Specification

Description		QKU-500	QKU-1000	QKU-1200	QKU-2000
Air Flow	M ³ /hr	850	1700	2040	3145
Power Supply		48VDC			
Power Consumption	Watts	100	208	248	340
Operating Temperature Range		5-60 Deg C / 0-100%RH			
Unit Dimension					
Width	mm	500	590		590
Depth	mm	280	380		450
Height	mm	478	534		
Nosie level	dB	62	63	65	68
Unit Weight	Kgs	22	25	28	35
Filter		Non woven HDPE			

Process Cooling Unit - Water / Oil / Glycol

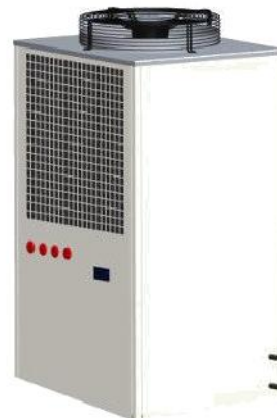
EK15-W / EK30-W / EK90-W / EK150-W / EK250-W / EK350-W

Features

- Robust design
- GI housing with powder coating
- Environmental friendly refrigerant
- Fully Programmable micro-controller
- Fail safe design

Application

- Spindle oil cooling
- Die water cooling
- EDM wire cutting machine
- Ultrasonic machine
- Punching and shearing M/C
- CT scanner
- Scientific equipment.



Technical Specification

Description		Unit	EK15-W	EK30-W	EK90-W	EK150-W	EK250-W	EK350-W
Cooling Capacity	W10/L35	Watts	1500	3000	9000	15000	25000	35000
Power Supply		V/Ph/Hz	230 V/1 PH/50Hz		440 V/3 PH/50 Hz			
Rated Current		Amps	2.5	5	13	16	24	31
Flow rate		LPM	15		35		50	80
Head Pressure Pump		Bar	2.5		3		3	3.5
Tank Capacity		Liter	30		50		70	120
Power Consumption	W10/L35	kW	1.05	2.0	6.5	9.0	12.0	17.5
Operating Temperature Range		Deg C	+5 to +55					
Unit Dimension								
	Width	mm	550		700		1250	1700
	Depth	mm	620		775		800	800
	Height	mm	950		1300		1400	1400
Unit Weight		Kgs	70	80	165	215	380	450

Experience the world class technology in industrial precision cooling for electrical enclosure and process equipments.



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