GEMORION

An Indo-Japanese Joint Venture Company

MAKE IN INDIA

Energy Saving Precision Inverter Chiller

Ideal for Thin Wall Container, IML

1ST TIME IN INDIA

ENERGY EFFICIENT
(Minimum 25% Saving)

PRECISE CONTROL

High Flow, High Pressure model for
Caps & Closures
PET Preform

ENERGY SAVING

Invest on NEW GKE & Get PAYBACK Only From "POWER SAVING" In Less than 2 Years

PRODUCT FEATURES

1 HIGH ENERGY SAVING

2 8.7 kW - 90 kW COOLING CAPACITY

3 AS LOW AS ±0.1° C ACCURACY

4 LARGER CHILLED WATER TEMPERATURE RANGE (10° C - 30° C)

5 RS485 CONNECTIVITY

6 EXTERNAL WARNING ALARM / REMOTE COMMUNICATION WITH MOTHER MACHINE / REMOTE ON/OFF

7 VFD DRIVEN COMPRESSOR

8 CASTER WHEEL MOUNTED FOR EASY MOBILITY

9 SS - IN BUILT TANK & PUMP

10 ECO FRIENDLY R410A

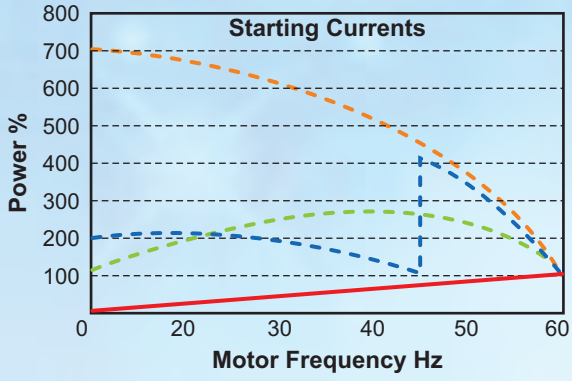
11 INVERTER DRIVEN FAN MOTOR

12 OPTIONAL INVERTER DRIVEN PUMP

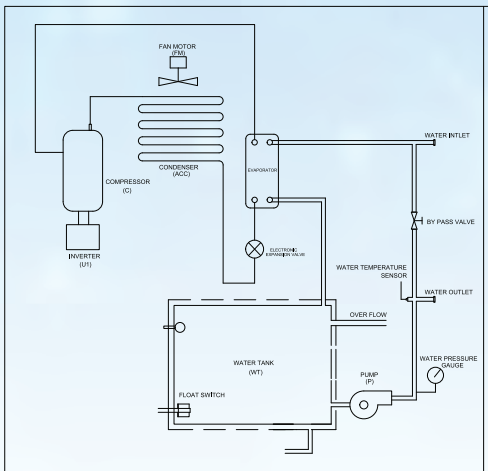
13 MODULAR OPERATION UP TO 12 UNITS IN PARALLEL

14 SUITABLE FOR AMBIENT UPTO 50° C

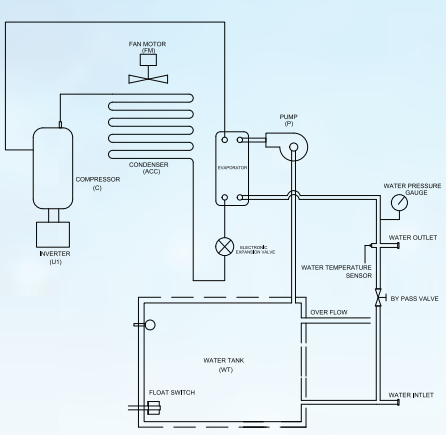
STARTING CURRENTS OF OTHER STARTERS Vs VFD



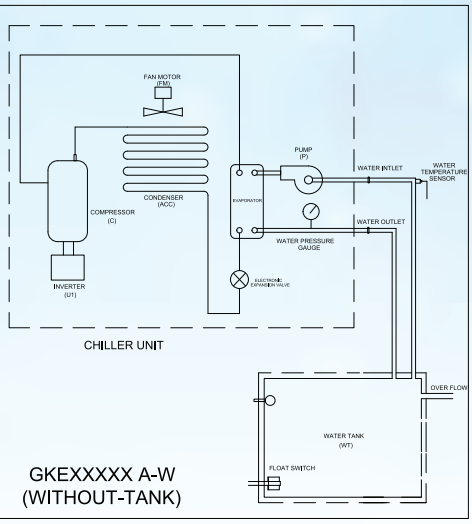
* For Detailed Specification Contact Factory



GKEXXXXX A-V (COLD TANK)



GKEXXXXX A-H (HOT TANK)



GKEXXXXX A-W (WITHOUT-TANK)

TECHNICAL SPECIFICATIONS

ITEM	Units	GKE 2200A-V	GKE 3750A-V	GKE 5500A-V	GKE 7500A-V	GKE 11000A-V	GKE 15000A-V	GKE 18000A-V	GKE 22000A-V	GKE 30000A-V
Cooling Capacity * 1	kW	8.7	12	20	25	35	45	57	70	90
External Dimensions (H x D x W)	mm	1485x905x805	1684x905x805	1825x988x885	1646x800x1340	2020x919x1600		2124x924x1603	2320x1180x2200	
Unit Mass (dry weight) (when tank empty)	kg	Approx. 200	Approx. 240	Approx. 260	Approx. 320	Approx. 475	Approx. 480	Approx. 560	Approx. 1050	Approx. 1420
Operable Ambient Temp. Range	°C	5 to 50								
Operable Liquid Temp. Range	°C	10 to 30								
Control Precision * 4		±0.5°C (±0.1°C Possible @ Stable Load Condition)								
Operating Water Pressure	MPa	0.25 ~ 0.50	0.25 ~ 0.50	0.35 ~ 0.55		0.35 ~ 0.55		0.5 ~ 0.7		
Operating Flow Rate	L/min	30 ~ 70	30 ~ 70	24 ~ 110		160 ~ 250		180 ~ 350		
Inlet and Outlet Port Size		BSP1"			BSP1 1/4"			BSP2"		
Power Source * 2	V(Hz)	3 Phase.400V ± 5% (50 Hz)								
Power Connected * 1	kW	3.8	5.6	8	9.5	16.4	19.7	25.2	30.64	37.9
Maximum Current * 1	A	6.5	9.3	13.2	15.5	28.5	34.0	42.02	53.9	64.8
Power Capacity * 3	kVA	4.5	6.4	9.1	10.7	19.8	20.80	29.11	37.35	44.9
Compressor		Inverter Driven Scroll type								
Condenser		Finned tube type, Forced air cooling								
Operation Control Method		Inverter Drive								
Evaporator Construction / Material		Plate type (SUS316 with copper brazing)								
Discharge Pump Construction / Material		Multistage Centrifugal pump (SS Body, SS Impeller, CI end connection)								
Water Tank Capacity	L	Approx. 44	Approx. 95	Approx. 115	Approx. 140	Approx. 220		Approx. 320		
Refrigerant		R - 410A								

* 1. Cold water temperature 20°C, Room temperature 38°C. Cooling capacity is at least 95% of listed figures.
* 2. Voltage imbalance should be within ±2%.
* 3. The figure noted is when operating at the highest capacity in the normal operating range.
* 4. Not in scope when compressor is off and when load is less than or equal to 30% of rated capacity.

Model Variants:

GKEXXXXX A - *
- V - Cold Tank
- H - Hot Tank
- W - Without Tank

ENERGY SAVING PROPOSAL

EXAMPLE BASED ON CASE STUDY IN INJECTION MOULDING APPLICATION

	Competitor Chiller (Water Cooled)	Gem Orion Chiller (Air Cooled)
Power Consumed By Chiller	11.5 Units	7 Units
Circulation Pump Power (for Condenser)	1 Unit	-
Cooling Tower Motor Power	0.3 Units	-
Total Power	12.8 Units	7 Units

Net Power Saving = 5.8 Units / HR

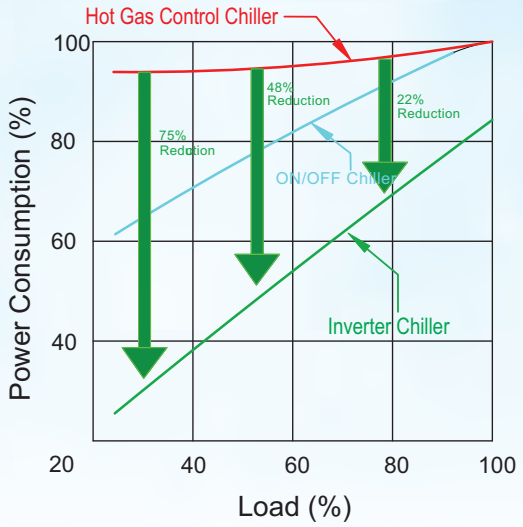
Net Power Saving Per Year = 5.8 x 24 x 365

= 50808 Units

Cost Saved Per Year = ₹ 4,06,464/-

(For ₹ 8/- Unit Power Cost)

TYPICAL POWER CURVE



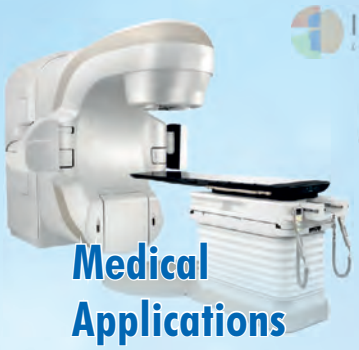
Few Applications Of Our Chillers

Plastic

Induction Heating

Machine Tools

Textiles



Medical Applications

Printing & Packaging

Laser Cutting / Welding

Linked in

ISO 9001:2015 REGISTERED

TÜV SÜD ISO 9001

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