

## Water chiller

EVR jointly SESS Water chilling plant is designed wide range from 1 TR to 10TR there will be a hot water tank in our system from where the water is being pumped through the evaporator gets cooled to the required temperature and sent to the user department. There will be a temp indicating controller which controls the temp of chilled water. The system working is controlled by the set point of the temperature controller to stabilize the chilled water generated to the required level. Fresh water is used freely for cooling production processes. Today, most processes require cooling water with much closer defined tolerances. Water chillers provide cooling in a controlled closed circuit. This means that the water used for your production processes is reliable, constant, and defined.



### **Standard Features**

#### **Refrigeration Circuit**

- Refrigerant R 407 C / R 22
- Rated water temperature of 15 deg C +/- 2 deg C
- Temperature stability of +/- 2 deg C
- Scroll / reciprocating compressor
- Air cooled condenser with pre filter
- PHE evaporator
- Thermostatic expansion valve

### **SRI EASWARI SCIENTIFIC SOLUTION**

Old No- 499, New no: 2/20, Plot No - 110A, Srinivasanagar, 2<sup>nd</sup> cross street, Srinivasapuram, Baraniputhure, Iyyapanthangal,  
Near: srinivasa welding shop, Chennai-600 056 INDIA,

### **Electrical controls**

- Microprocessor bases temp controller
- High and low pressure switch
- Antifreeze thermostat
- Single phase preventer
- Float switch
- Potential free contact for Fault signal
- 230 V control ckt
- 230 V, 1 PH, 50 HZ / 415 V, 3 PH, 50 HZ power supply

### **Water circuit**

- SS centrifugal pump – 10 lpm / TR, upto 4 bar pressure
- Insulated SS reservoir with lid of 30 liter / TR volume
- Non corrosive piping
- Level indicator
- Bypass connection
- Drain
- Top up port
- Overflow port
- Flow rate ranging from 5 lpm / TR to 20 lpm / TR
- High pressure pump up to above 5 bar
- Standby pump
- Secondary heat exchanger

### **SESS Air Cooled Chillers are a perfect solution for any application:**

- **Automobile and Mechanical Engineering** – machine tool, induction hardening and heating, welding machines, rolling mills, presses, cutting, profiling, polishing, electric discharge machine, hydraulic oil cooling, heat treatment, component washing, component cooling, environmental test chambers, drive cooling, plasma spray, vacuum systems, etc
- **Plastics** – injection molding, PET, blow molding, woven sack extrusion, sheet and profile extrusion, thermoforming, presses, etc

### **SRI EASWARI SCIENTIFIC SOLUTION**

Old No- 499, New no: 2/20, Plot No - 110A, Srinivasanagar, 2<sup>nd</sup> cross street, Srinivasapuram, Baraniputhure, Iyyapanthangal,  
Near: srinivasa welding shop, Chennai-600 056 INDIA,

- **Pharma and chemical** – Jacketed vessels cooling, condenser cooling, PUF mixers, Laboratories applications, x ray spectrometers, paint cooling, packing machine, anodizing, plating, liquid nitrogen plant, etc
- **Medical** – MRI, PET scan, CT scan, linear accelerator, electron microscope, etc
- **Food and Beverages** – Microbreweries, confectionary, bakeries, distilleries, wineries, bottling, carbonation, vegetable, meat and fish processing, etc
- **Metal working** – Water jet cutting, power press, hydraulic oil cooling, laser cutting, aluminum extrusion, precious metal processing, etc
- **Lasers** – cutting, welding, marking, profiling, optics, medical, engraving, etc
- **Paper and related** – printing machine, labeling machine, cardboard making, plastic film machine, etc
- **Others** – textile, semiconductor, air compressor, concrete batching, dynamometer, furnace, etc

WATER CHILLER TECHNICAL CONFIGURATION	
CAPACITY RANGE	0.5 TR – 10 TR and above.
UNIT TYPE	Independent function or group function.
TEMPERATURE	+10° C TO + 30° C Media Temperature.
COOLING CAPACITY	Evaporation at 7° C, Condensation at 50° C
COOLING MEDIA	Water.
EVAPORATION TYPE	Online, storage type, direct immersion type.
COMPRESSOR TYPE	Hermetically sealed, Scroll, Digital scroll, semi hermetic, Screw, Open type.
CONDENSORS	Water or air cooled grooved pipe heat exchanger
EVAPORATOR	Plate type heat exchanger, fin and tube type, shell and tube type, dipped coil, Tube in Tube, Shell and Coil.
WATER FLOW RATE	Very wide range from 5 Lpm to 2000 Lpm+
INSULATION	Torcellin, puf, nitril rubber, thermo cool, thermorex.
ELECTRICALS	1Ph – 230 V, 50 Hz, AC, 3 Ph – 440 V, 50 Hz, AC, Attachable, Detachable Penal Board.

### SRI EASWARI SCIENTIFIC SOLUTION

Old No- 499, New no: 2/20, Plot No - 110A, Srinivasanagar, 2<sup>nd</sup> cross street, Srinivasapuram, Baraniputhure, Iyyapanthangal,  
Near: srinivasa welding shop, Chennai-600 056 INDIA,