

# Packaged Water Chiller

Eco Friendly Refrigerant  
Energy Efficient Scroll



Cooling Capacity : 0.5TR to 120TR

Werner Finley 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 moulding, PET, blow moulding, woven sack extrusion, sheet and profile extrusion, thermoforming, presses, etc

### 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



### Standard Features

#### Refrigeration circuit

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

#### 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 circuit  
230 V, 1 PH, 50 HZ / 415 V, 3 PH, 50 HZ power supply  
IP 55 protected cabinet

#### Water circuit

SS centrifugal pump – 10 lpm / TR, upto 4 bar pressure  
Insulated SS reservoir with lid of volume 30 liter / TR  
Non corrosive piping  
Water pressure gauge  
Level indicator  
Bypass connection  
Drain  
Top up port  
Overflow port

#### Structure

Hot air exhaust – top throw  
Heavy duty CRCA profile pillar construction  
CRCA door panels  
Heavy duty welded MS brase frame  
Powder coated

### Optional Features

#### Refrigeration circuit

Refrigerant R 134a  
Water temperature ranging from + 5° C to + 25° C  
Temperature stability upto +/- 0.1° C  
VFD based compressor  
Water cooled condenser – shell and tube type  
Electronic expansion valve  
Shell and tube / coil type evaporator  
Hot gas bypass  
Refrigerant pressure gauge  
Split system – Indoor + Outdoor

#### Electrical controls

PLC / Microprocessor based chiller controller  
RS 232 / 485 communication ports  
Exhaust fan speed control for low ambient regions  
Water flow switch  
Digital water flow meter cum switch  
Additional temperature indicators  
Additional potential free contacts  
Special voltage and frequency package in 1 PH and 3 PH  
Hour meter  
Voltmeter / Amp meter  
Energy meter  
Audio alarm  
24 V DC control voltage

#### Water circuit

Flow rate ranging from 5 lpm / TR to 20 lpm / TR  
High pressure pump up to 10 bar  
Standby pump  
Secondary heat exchanger  
Larger size reservoir  
Closed loop Pressurized reservoir with expansion tank  
Water flow meter (analogue)  
Water filter  
Non return valves  
Solenoid valve for bypass / top up

#### Structure

Outdoor installation package  
Hot air exhaust – side throw duct  
SS frame and panels  
Aluminum extrude profile frame with CRCA powder coated panels



iMAX - 40TR to 120TR



iMAX - 40TR to 120 TR



Pump & tank station for iMAX



## The Water Chiller Range



iCON - 0.5TR



Water Cooled Chiller - 5TR to 120TR

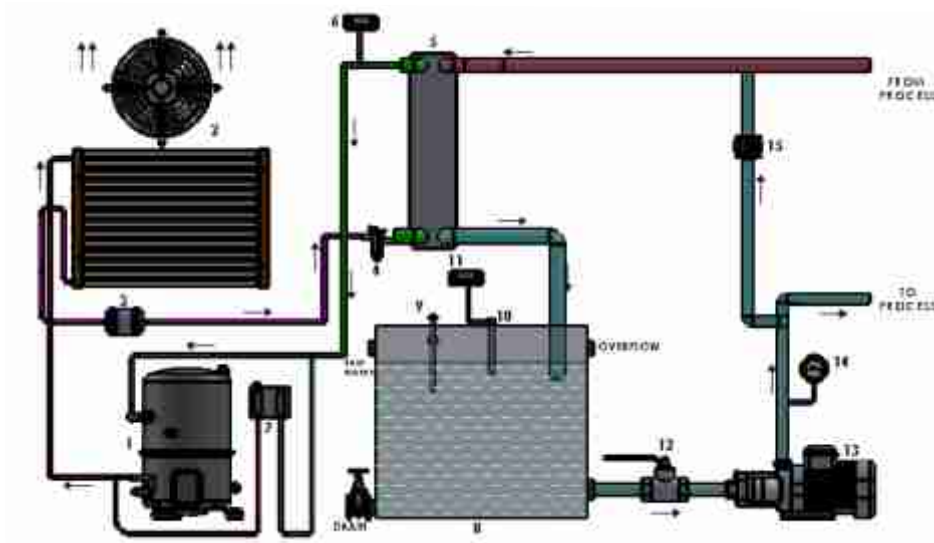


iCON - 1.0TR to 7.5TR



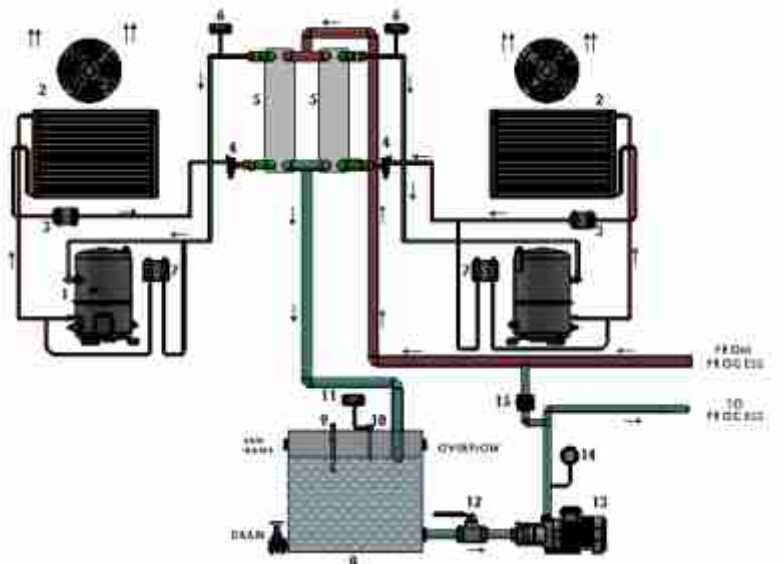
iMAT - 10TR to 30TR

### Single Compressor Chiller



1. Compressor	6. AFT	11. Temperature Controller
2. Condenser with Fan	7. HP / LP Switch	12. Ball Valve
3. Filter Drier	8. Tank	13. Process Pump
4. Expansion Device	9. Float Switch	14. Pressure Gauge
5. Compact brazed heat exchanger	10. Sensor	15. Gate Valve

### Multiple Compressor Chiller



1. Compressor	6. AFT	11. Temperature Controller
2. Condenser with Fan	7. HP / LP Switch	12. Ball Valve
3. Filter Drier	8. Tank	13. Process Pump
4. Expansion Device	9. Float Switch	14. Pressure Gauge
5. Compact brazed heat exchanger	10. Sensor	15. Gate Valve



Model	Com	Ref. Ckt.	Cap TR	Power Supply	Power (KW)	Amps (A)	Ref (R)	Dimension overall H*W*D)	Tank Litres	Primary Pump LPM / BAR	Dry weight kg	Inlet / Outlet
ICON000D5AX	Recip	1	0.5	1 PH	1.55	9.7	134a	900*550*550	25	10/4	55	½" BSP
ICON001D0AX	Recip	1	1	1 PH	2.33	10.65	134a	1200*650*650	25	10/4	80	1" BSP
ICON001D5AX / Y	Recip	1	1.5	1/3 PH	3.3/3.25	16.5/7.2	22	1200*850*750	50	15/4	110	1" BSP
ICON002D0AX / Y	Recip	1	2	1/3 PH	3.7/3.5	17.5/7.5	22	1200*850*750	50	20/4	110	1" BSP
ICON003D0BY	Scrol	1	3	3 PH	6.3	12.8	407c	1200*850*900	75	30/4	135	1" BSP
ICON005D0BY	IScroll	1	5	3 PH	6.6	14.4	407c	1450*1050*1000	100	50/4	180	1" BSP
ICON007D5BY	Scroll	1	7.5	3 PH	12.6	26.2	407c	1450*1350*1200	200	75/4	260	1-¼" BSP
IMAT010D0BY	Scroll	½	10	3 PH	15.2/14	30/29	407c	1700*1350*1300	250	100/4	265	1-¼" BSP
IMAT015D0BY	Scroll	½	15	3 PH	22/21.3	41/43	407c	1700*1700*1600	375	150/4	345	1-½" BSP
IMAT020D0BY	Scroll	½	20	3 PH	25/25.4	47/48	407c	2150*1600*1800	500	200/4	456	1-½" BSP
IMAT025D0BY	Scroll	½	25	3 PH	31.5/31	58/60	407c	2000*2100*1800	625	250/4	480	2-½" FLANGE
IMAT030D0BY	Scroll	2	30	3 PH	41	60/75	407c	2100*2150*1800	750	300/4	535	2-½" FLANGE
IMAX040D0BY	Scroll	2	40	3 PH	50.2	95	407c	1800*2300*2500 (1300*2000*1200)	1000	400/4	710	2-½" FLANGE
IMAX045D0BY	Scroll	3	45	3 PH	60.2	112	407c	1800*2300*2500 (1400*2000*1200)	1125	450/4	750	2-1/2" FLANGE
IMAX050D0BY	Scroll	2	50	3 PH	60.2	105	407c	2050*2500*2500 (1450*2100*1250)	1250	450/4	800	2-½" FLANGE
IMAX060D0BY	Scroll	2	60	3 PH	61.2	108	407c	2050*2500*2500 (1550*2100*1200)	1500	600/4	810	3" FLANGE
IMAX070D0BY	Scroll	3	70	3 PH	91.4	160	407c	2150*2500*3200 (1550*2300*1400)	1750	700/4	950	3" FLANGE
IMAX075D0BY	Scroll	3	75	3 PH	91.4	160	407c	2200*2500*3300 (1550*2300*1400)	1875	750/4	1350	3" FLANGE
IMAX080D0BY	Scroll	3	80	3 PH	101	182	407c	2200*2500*3700 (1600*2300*1400)	2000	800/4	1350	3" FLANGE
IMAX090D0BY	Scroll	3	90	3 PH	110	205	407c	2300*2500*3700 (1670*2300*1500)	2250	900/4	1650	4" FLANGE
IMAX100D0BY	Scroll	4	100	3 PH	123	215	407c	2100*2500*5000 (1700*2300*1500)	2500	1000/4	1650	4" FLANGE
IMAX120D0BY	Scroll	4	120	3 PH	126	225	407c	2100*2500*5000 (1700*1700*2600)	3000	1200/4	1800	4" FLANGE

**Note** · 0.5 TR to 7.5 TR – Chillers are standardized and packaged with required pump and tank

- 10 TR to 30 TR – Chillers are standardized and packaged with tank. Pump(s) have to be selected as per demand of the application; up to two pumps can be assembled within the frame work of the chiller.
- 40 TR to 120 TR – Chillers are standardized and packaged with tank, but here tank is assembled outside the chiller frame on an independent based frame. Pump(s) have to be selected as per demand of the application and assembled on either side of the tank on the base frame provided for the tank, up to two pumps can be assembled.
- Options of other refrigerants like R 22 / R 134a are available on request
- Chillers with water cooled condensers are available on request
- Above 40 TR the dimension within the brackets represent the pump and tank station, which is kept outside of the chiller.



Screw Chiller 30TR to 300TR



Low Temperature Chiller 10HP to 100HP (-40°C)



Oil Chiller 1TR to 5TR



Filtration System



Panel Air Conditioner 400kcal/hr to 9000kcal/hr

**About:**

Since 1986 Werner Finley has been dedicated in providing process cooling solutions to the industry and this has organically led us to manufacture a wide range of cooling and related products. We also offer customized systems like the constant temperature bath ( $\pm 0.1^{\circ}\text{C}$ ), air to fluid and fluid to fluid heat exchanger systems. Owing to our wide range of process cooling products, we have been able to cater to major market segments like the Auto, Pharma, Chemical, Plastics, Food and beverages, Breweries, Laboratory, Defense, etc. Werner Finley is a vision that stands for ethical business practice, high quality product offerings and enhanced customer satisfaction. We are an ISO 9001 – 2008 certified company for quality and have been rated highly by CRISIL and D&B for our financial health. Being pioneers in this field in India, we have a strong and well established Sales and Service Network across the length and breadth of the country. We are a professionally managed and organised company engaged in developing newer cooling products for new and existing markets within and outside India. We are doing our bit to the environment by phasing out the use of ozone harmful refrigerant and substances and adapting our technology to use the new eco-friendly refrigerants.

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