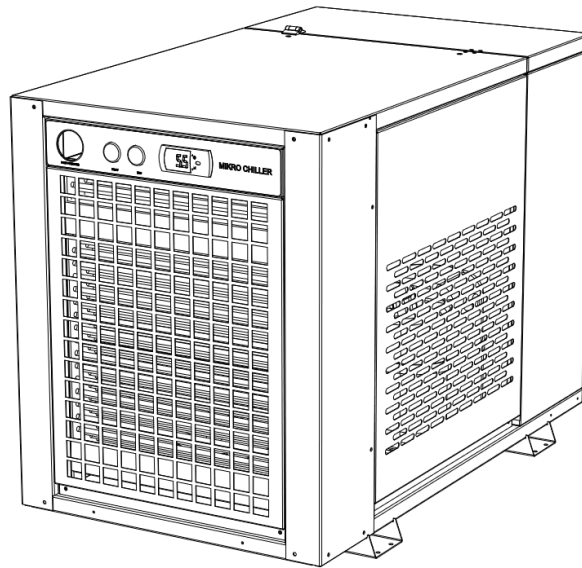


INDUSTRIAL CHILLERS – S SERIES

0.5-3kW of Cooling

Technical data



The MIKRO and MINI Chillers are designed to cool processes with small heat loads.

They can be installed indoors or outdoors and can be configured to supply chilled water for

- Potable water applications
- Process cooling from an internal buffer tank
- Process cooling to an external buffer tank

About Us

THERMAL IQ is Australia's largest manufacturer of small capacity specialised industrial water chillers. The technical team at THERMAL IQ have a combined 50 years in the Australian chiller industry – our history goes directly back to the pioneers of chiller manufacturing in Australia – Blackmore and Singleman. No other company can offer this level of engineering experience and support for our customers critical applications.

Rather than offer imported chillers THERMAL IQ has dedicated itself to providing locally specified and manufactured chillers which are supplied with components sourced from the industry's tier one suppliers. With specifying chillers experience counts and no other company has the experience to offer the advice and solutions the market requires.

As the Australian market grows and diversifies, THERMAL IQ can offer expert advice on chillers, heat pumps, variable speed high efficiency scroll chillers, large scale condensing units, air handling and more.

THERMAL IQ is backed by a nationwide team of service technicians who are trained in the operation and maintenance of THERMAL IQ chillers.

Chiller Applications

Industrial process chillers are designed to circulate water to a heat producing process via a water pump. The water brings the heat back to the chiller where the compression cycle cools the water before it is returned to the heat process.



Over clocking



Food preparation



Medical Apps



Process cooling



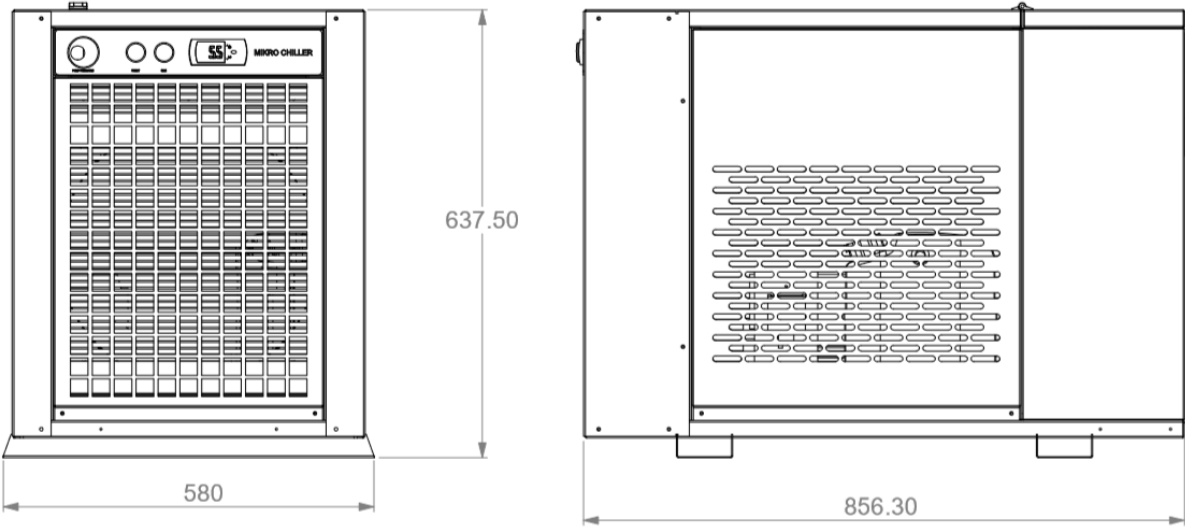
Distilling

Features

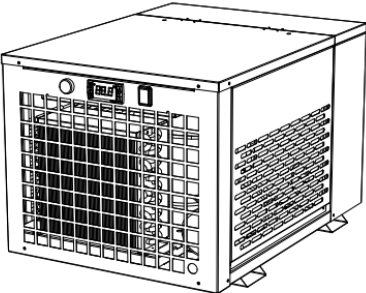
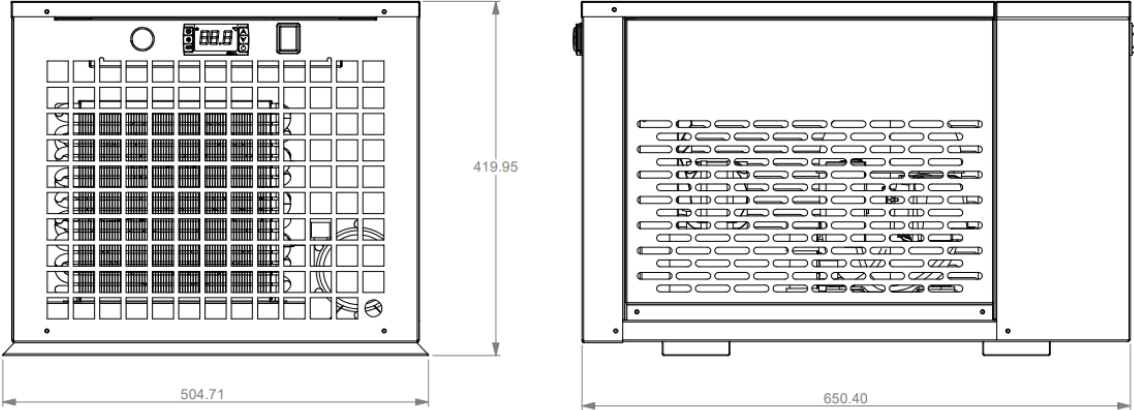
The chillers are supplied with – as standard

- An internal buffer tank to protect the compressor from excessive starts, close temperature tolerance, reduces thermal spikes and allows for vented design with no need for hydronics kit
- Suitable for indoor or outdoor installation
- Rugged galvanized steel construction
- Components sourced from the industry's tier one suppliers
- R134a refrigerant for high ambient temperature operation and the lowest GWP of all contemporary refrigerants
- Integrated circulation pump
- Comprehensive 12 months warranty on all parts and labour
- Accurate electronic controller
- 316SS plate heat exchanger evaporator
- Comprehensive factory testing before dispatch

Dimensions TCM010 to TCM025



Dimensions TCM187 TO TCM214



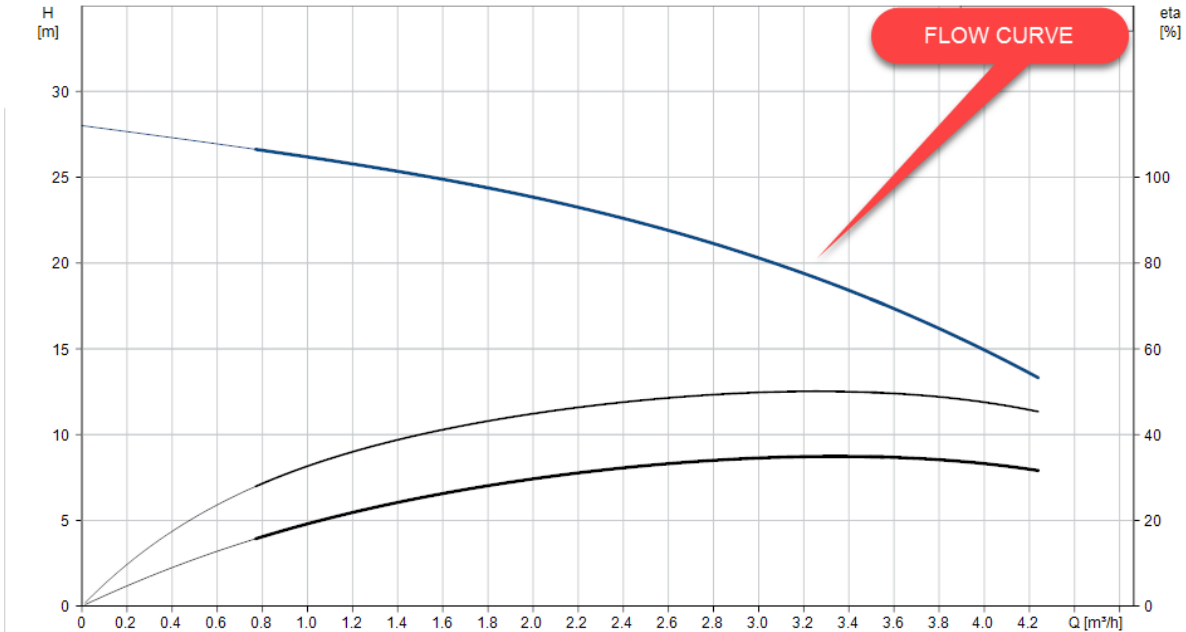
excellence in heat transfer

Technical Data – MIKRO

The technical data below is at standard condition – every customer application is unique. THERMAL IQ is always able to customize the solution to meet the customer need sand a detailed.

Model		TCM010	TCM015	TCM020	TCM025
System type	Chiller	Heat rejection		Air	
Capacity ASHRAE CONDITIONS	kW	1.2	1.7	2.3	3.0
Capacity control	%	0-100%			
Refrigerant	Type	R134a			
Power requirements	V/Hz/Ph	220-240/50/1			
QTY		1			
Maximum Power input	kW	0.65	0.8	1.1	1.4
Total running current	Amps	4.0	4.1	5.1	6.8
CONDENSER	Air cooled – heavy duty – high ambient design				
Material	Aluminum, blue fin on copper tube				
EVAPORATOR	Plate heat exchanger				
No. refrigeration circuits		1			
Chilled water flow rate	l/s	0.1	0.1	0.2	0.2
Pressure drop	kPa	50			
Working temp range	C	05/25			
Water connections	mm	½" push fit			
Expansion		Capillary			
CONTROLLER	Standard electronic – Dixell				
Shipping weight - dry	Kg	75	76	76	
Buffer Tank	Litres	40			
BMS protocols	-	Buffer tank construction		Stainless steel	

Pump Curve – MIKRO CHILLER



excellence in heat transfer

HAVCR ENGINEERING

SOLUTIONS

MAINTAINANCE

SERVICIES

MADE IN AUSTRALIA

Technical Data – MINI

Model	TCM187		TM210	TM214
System type	Chiller	Heat rejection	Air	
Capacity ASHRAE Cond's	Watts	800	950	1100
Capacity control	%	0-100%		
Refrigerant	Type	R134a		
Total power input	Watts	418	552	651
Total running current	Amps	2.27	3.44	4.18
Power requirements	V/Hz/Ph	220-240/50/1		
CONDENSER	Air cooled – heavy duty – high ambient design			
Material	Aluminum, blue fin on copper tube			
Tube diameter	Inch	7mm		
Fin spacing	mm	2.1		
EVAPORATOR	Plate heat exchanger			
No. refrigeration circuits		1		
Chilled water flow rate	l/s	0.1		
Pressure drop	kPa	50		
Working temp range	C	05/25		
Water connections	mm	½" push fit		
Expansion		Capillary		
CONTROLLER	Standard electronic – Dixell			
Shipping weight - dry	Kg	27		30
Buffer Tank	Litres	15		
BMS protocols	-	Buffer tank construction	Stainless steel	

Pump curve – MINI CHILLER

