5.1kW[1] Industrial Process Chiller – Model TCW41

PRODUCT

TCW41

The TCW41 is a compact, high-performance industrial process chiller designed to provide reliable and efficient cooling across a wide range of industrial applications. Delivering up to 5.1kW of cooling capacity, the unit incorporates an integral buffer tank and high-performance 2.8 Bar circulation pump, providing a complete, ready-to-install cooling solution.

Engineered for long-term reliability, the TCW41 features a non-ferrous water circuit as standard. This premium design helps minimise corrosion, maintain fluid quality and reduce maintenance requirements, offering a significant advantage over many competing chillers that utilise ferrous components within the cooling circuit.

Manufactured in Italy by nVent HOFFMAN, a global leader in industrial thermal management solutions, the TCW41 combines robust European engineering with dependable performance. Its compact footprint makes it ideal for installations where space is limited, while its industrial-grade construction ensures reliable operation in demanding production environments.

Suitable for a wide variety of process cooling applications, the TCW41 provides accurate and dependable temperature control where reliability and continuous operation are essential.

INDUSTRY STANDARDS

CE; UKCA

PRODUCT ATTRIBUTES

Cooling Duty @ 15°C Fluid, 25°C Ambient:	3.9kW
Refrigerant:	R134a
Settable Fluid Temperature Range:	+8°C to +25°C
Nominal Fluid Flow Rate:	670 Litres/Hour
Ambient Temperature Operating Range:	+10°C to +45°C
Internal Pump Nominal Pressure:	2.8 Bar
Internal Tank Capacity:	10 Litres
Connection Sizes:	1/2" BSP(F)
Power:	230V / 1Ph / 50Hz
Full Load Amps:	12 Amps
Dimensions (mm):	495 (H) x 450 (L) x 800 (W)
Net Weight:	75kG
Suitable for:	Indoor only

[1] Maximum possible cooling capacity.

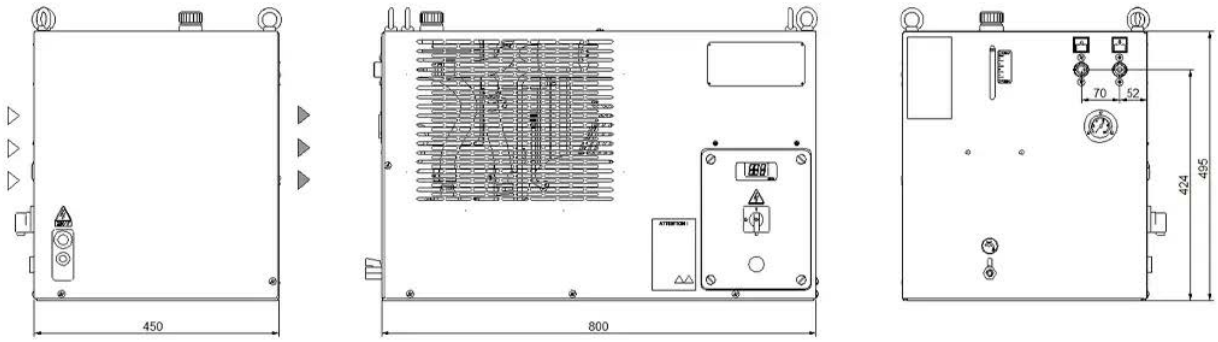
KEY BENEFITS & FEATURES

- Cooling capacity up to 5.1kW
- Non-ferrous water circuit for enhanced corrosion resistance
- Integral buffer tank and 2.8 Bar circulation pump
- Compact, space-saving design
- Manufactured in Italy by nVent HOFFMAN
- Reliable industrial-grade construction
- Suitable for a wide range of process cooling applications

CERTIFICATIONS

ADDITIONAL PRODUCT DETAILS

Note: Items are customisable, contact Nexus to configure.



Correction factors for calculating the cooling power													
Water outlet temperature	Fw	°C					8	10	**15**	20	25		
		factor					0.86	0.92	**1**	1.05	1.12		
Ambient temperature	Fa	°C					15	20	25	**32**	35	40	45
		factor					1.16	1.1	1.05	**1**	0.97	0.91	0.84
Percentage glycol by weight	Fg	%	**0**	10	15	20	25	30	35	40			
		factor	**1**	0.99	0.98	0.97	0.96	0.94	0.92	0.89			

Cooling power = Nominal cooling power x Fw x Fa x Fg
*5,100 W is the maximum achievable cooling capacity for TCW minichillers.

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