

NEW HT^A-class chillers Revolutionary energy savings for high ambient applications







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THE WORLD LEADER IN OIL-FREE CHILLERS

With over 8000 installed, Smardt offers the world's widest range of oil-free centrifugal chillers – water-cooled, air-cooled, evap-cooled, modular, split and condenserless, from 200 kW (60 TR) to 11250 kW (3200 TR); Smardt pioneered this highefficiency category and remains its leader worldwide.



Beat the heat

Smardt's new HT^A-class air-cooled chiller series is specifically designed to overcome demanding high ambient applications, typically performed by lubricated screw or centrifugal chillers.

Smardt has brought its extensive experience in oil-free chiller development, sales and service into designing the HT^A-class – a range of air-cooled chillers for comfort and process cooling applications in high ambient conditions.

The HT^A-class range brings the same benefits as all Smardt oil-free chillers; delivering the highest level of reliability, outstanding efficiency, and the lowest total cost of ownership.

Compared with a new screw chiller, Smardt IPLV energy efficiency is routinely more than 32% better. Compared with older lubricated reciprocating, screw, scroll or centrifugal chillers, year-round savings with a Smardt chiller can be spectacular, with well over 50% savings.

Corrosion protection

The HT^A-class chiller range has been designed to overcome environmental conditions, utilizing an array of corrosionresistant materials and industry-leading coatings.

Engineered polymer condenser and compressor covers are factory-fitted as standard, made from UV and colour stabilized High Molecular Weight Polyethylene (HMWPE), ensuring a sustainable, corrosion-free and long-lasting aesthetic.

Adaptable by design

The chiller base is flexible in performance and footprint.

Extendable condenser design allows for a wide range of different efficiency options based on job location, application, and critical operating environment.

An extensive range of performance, functional and connectivity options are also available – all specific to the project and individual customer.



HT^A-class

280 kW (80 TR) -2100 kW (600 TR)

Overview:

- Operate up to <u>140°F / 60°C</u> ambient temperature with evaporator LWT = 44°F / 6.7°C
- Two-stage design allows each compressor to unload to 20%
- Pressure ratio > 6.2
- R134a / R513A and R1234ze refrigerant options available



Award-winning oil-free compressor technology

All Smardt HT^A-class chillers utilize the new TTH / TGH twin turbo high lift compressor - the world's first oil-free compressor optimized for high lift applications. The compressors are available in two versions — a nominal 375 kW (107 TR) model using R134a or R-513A and a nominal 285 kW (80 TR) model using low-GWP HFO-R1234ze.



Back to back impeller design balances the loads on the magnetic bearings at high lift conditions.



Smardt HT^A-class

280 kW (80 TR) - 2100 kW (600 TR)



COMPRESSOR QTY	FAN QTY	OVERALL LENGTH 'L' [mm]	OPERATING WEIGHT [kg]	SHIPPING WEIGHT [kg]
1	4	2610	2350	2290
1	6	3600	2855	2795
1	6	3600	3020	2925
1	8	4800	3500	3405
2	8	4800	4180	4045
2	10	6000	4695	4560
2	10	6000	4825	4675
2	12	7200	5295	5140
2	12	7200	5705	5505
2	14	8400	6175	5975
3	12	7200	6455	6190
3	14	8400	6925	6660
3	16	9600	7930	7580
4	20	12000	9650	9350

Flexible design



Extendable condenser design allows for a range of different efficiency options based on job location, application, and critical operating environment. Smardt HT^A-class chiller configurations are available with up to 8 compressors per chiller.





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