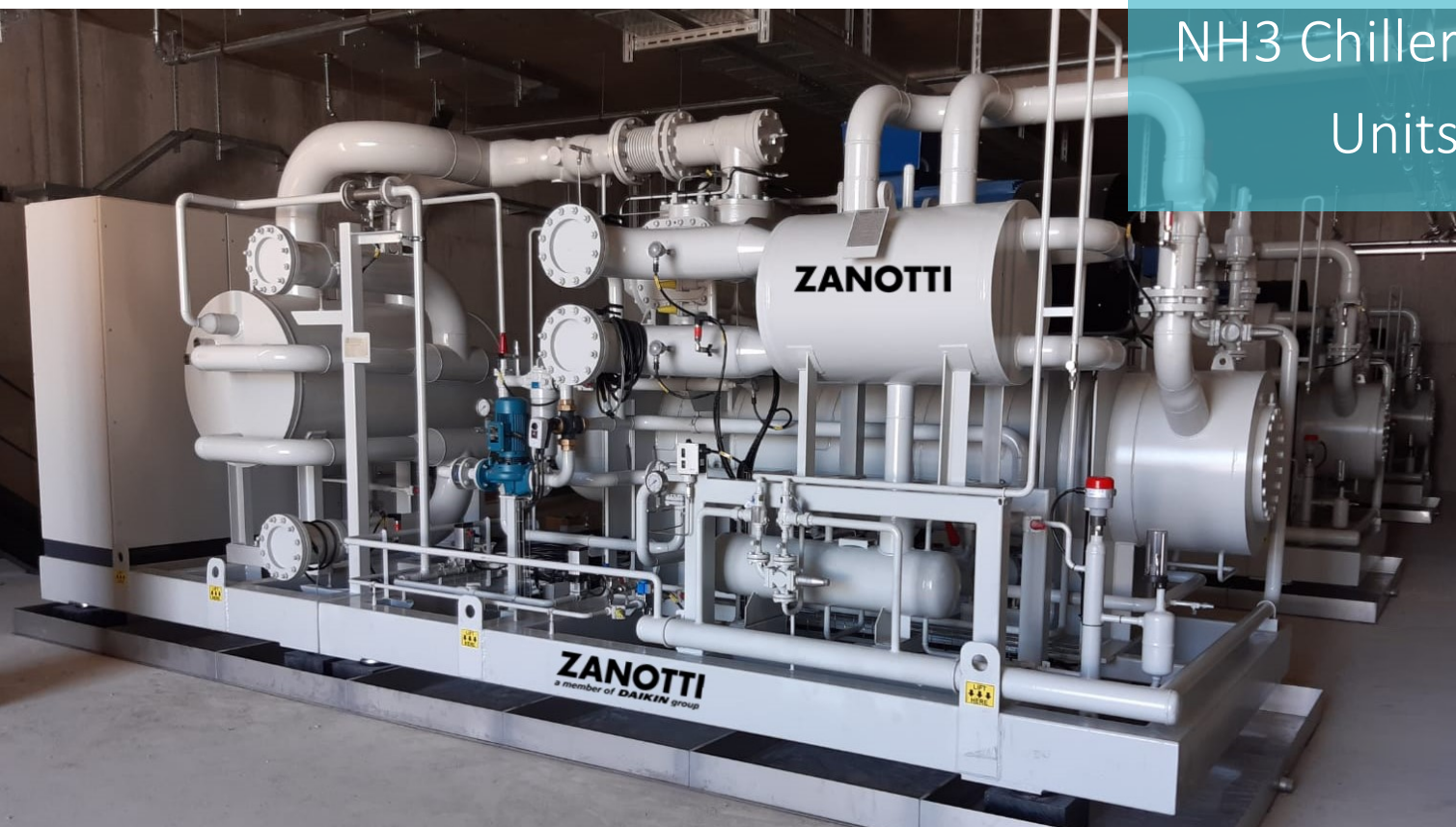


NH₃ Chiller Units



Industrial Refrigeration

Zanotti Industrial Division design and installs systems for industrial refrigeration. Package units with semi-hermetic or open type screw compressors used for big refrigeration systems in cold storage of every fresh and frozen food.

Zanotti Industrial Division is an excellence in the refrigeration technology applied to industrial refrigerated stores, logistic centres, clean rooms, catering and other special applications like ice rinks and hockey rinks.

Respect for the environment is a fundamental choice for Zanotti, in line with the trend to which all industrial countries have committed resources and procedures.

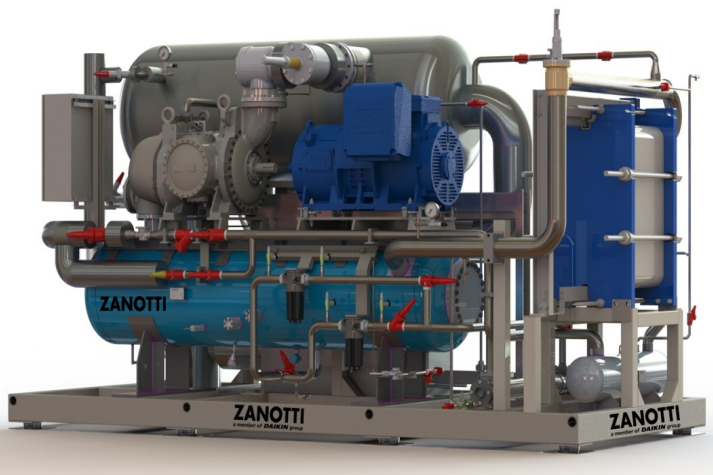
The constant use of state-of-the-art technology enables Zanotti refrigeration plants to be with the best possible efficiency always to concur with environmental regulations.



ZANOTTI/DAIKIN

NH3 Chiller Units

With J&E Hall Compressor



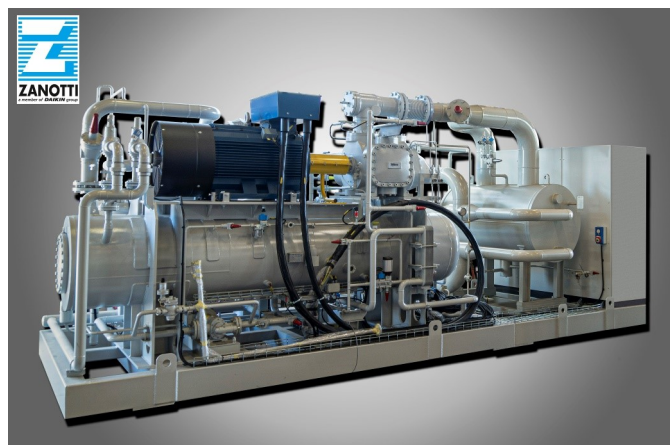
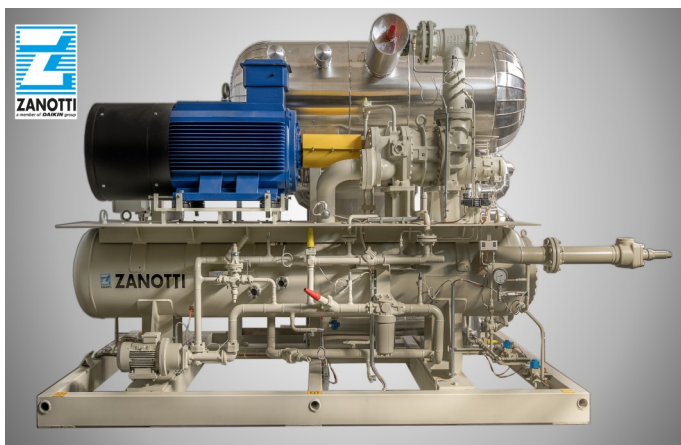
Zanotti has more than 50 years experience on industrial refrigeration systems with specialized know-how on customized solutions. Special applications with high quality, high technical and high hygiene standards are fields where Zanotti experience is required. Standard and custom made units for each specific business sector are designed in order to satisfy Customer requirements with low ambient impact using total green refrigerant.

Available Services: Key-features

- ✓ Design
- ✓ Manufacturing
- ✓ Delivery
- ✓ Installation
- ✓ Commissioning
- ✓ Maintenance
- ✓ DLP
- ✓ Spare Parts

Main technical features of our NH3 compressor units are:

- ◆ High efficiency and low noise compressors
- ◆ Range of application up to 4.500 kW and $-50/+50^{\circ}\text{C}$ as evaporation/condensing temperatures
- ◆ Compact design for easy access and maintenance
- ◆ High efficiency motor up to IE4
- ◆ High quality Oil Separator, Evaporators and Condensers
- ◆ Oil cooling with different design: liquid injection, thermosyphon, water-cooled
- ◆ Siemens touch screen up to 10" with Zanotti/Daikin integrated software



ZANOTTI S.p.A. - Industrial Division

Via Ferrara, 1 - 40018 San Pietro in Casale - Bologna (Italy) | Tel. +39 051 666 7901 | info@zanotti.com | www.zanotti.com

Compressor Technical Details

J&E Hall Compressor

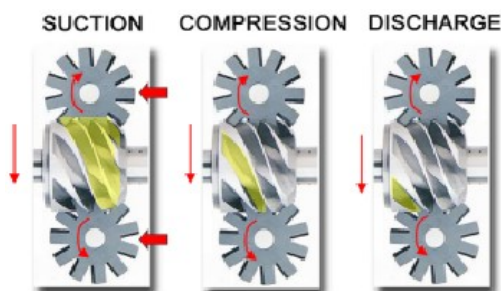
For more than 200 years, J&E Hall International has pioneered the development and application of refrigeration technologies. Today the company is recognised as a leading manufacturer for refrigeration and air conditioning single screw compressors worldwide.



Single Screw Technology

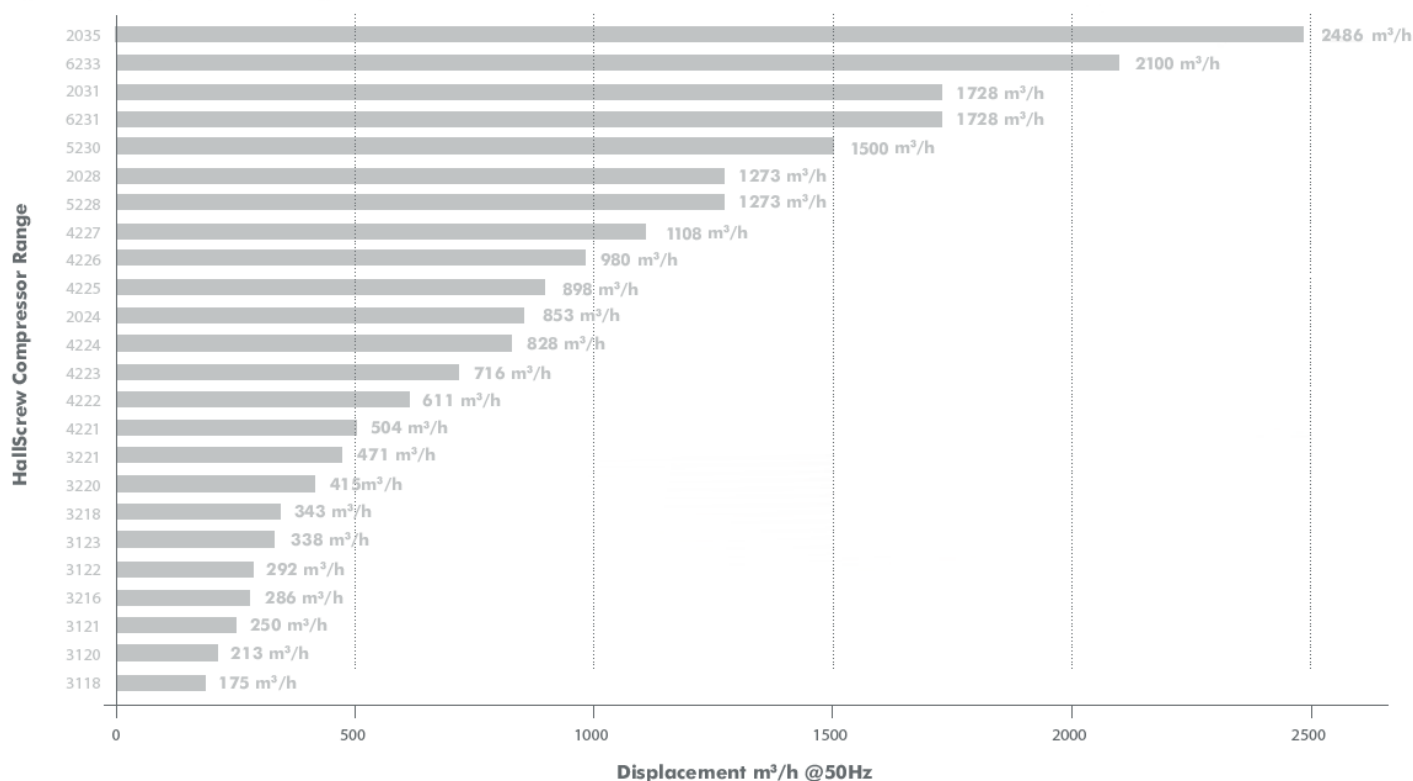
Key to the success of the J&E Hall single screw compressor is its outstanding reliability. Only three basic moving parts are involved, a main rotor which meshes with two diametrically opposed star wheels and results in balanced compression. Compressors are extremely robust and boast long bearing life over 100.000 hours.

The J&E Hall single screw compressor also features a high efficiency capacity control mechanism to regulate the capacity with corresponding reduction in power input. For ease of maintenance, the side casing can be removed to give access to all parts without removing the machine from its installation.



Star Wheel

J&E Hall use low friction composite material "HallPlas" in the compression process to ensure high efficiency and reliability. "HallPlas" material was developed using aerospace technology and can withstand the toughest operating conditions with all type of refrigerant.



Performance Data

ZANOTTI NH3 CHILLER UNIT	COOLING CAPACITY** [kW]					
	IN/OUT Temperature Secondary Fluid					
	+18/+14 °C	+8/+4 °C	-2/-6 °C	-12/-16 °C	-22/-26 °C	-32/-36 °C
ZCHU 3216	392	272	182	126*	77*	43*
ZCHU 3218	480	334	223	155*	95*	53*
ZCHU 3220	593	412	275	191*	117*	65*
ZCHU 3221	672	467	312	217*	133*	74*
ZCHU 4221	751	520	345	238*	146*	81*
ZCHU 4222	911	630	419	288*	177*	98*
ZCHU 4223	1067	739	490	338*	207*	115*
ZCHU 4224	1234	854	567	391*	239*	133*
ZCHU 4225	1362	947	635	453*	288*	168*
ZCHU 4226	1487	1033	693	495*	315*	184*
ZCHU 4227	1681	1168	783	559*	356*	208*
ZCHU 5228	1862	1293	865	610*	386*	224*
ZCHU 5230	2285	1592	1072	765*	497*	302*
ZCHU 6231	2552	1773	1188	844*	535*	310*
ZCHU 6233	3122	2172	1459	1029*	655*	383*
ZCHU 2035	3646	2527	1679	1176*	736*	435*

**Performance calculated with External oil cooling and Condensing Temperature +35°C @2.980 rpm

*Performance calculated with External oil cooling, Condensing Temperature +35°C and Economizer @2.980 rpm

Applications

Zanotti NH3 Chiller Units offer a wide range of cooling capacities for the most varied applications with multiple working conditions & suitable for various secondary fluids MPG, ETG, Etc. Customers have the confidence in our chiller units technology from deep freezing to standard refrigeration. Our NH3 Chiller Units are installed world-wide in retail, logistic, brewing, process plant, petrochemical and pharmaceutical applications.

Optional

Multiple compressors on same skid, Inverter drive (or standard Y/D motor starter), 240V control voltage, no electronic controller, ATEX approved design, electro mechanical cut outs, suction and/or discharge valves and head pressure control valve, dual oil filters, economiser, anti-vibration mounts, oil pump, on-board electrical panel, industrial sound enclosure for noise reduction.



To ask information,
scan the QR-Code
with the camera of
your smartphone.



Discover our Industrial
Refrigeration Portfolio:
www.zanotti.com/industrial-refrigeration/?lang=en

Available Certifications:

- > 2006/42 CE
- > 2014/68/UE PED
- > 2014/35/UE LV
- > 2014/30/UE EMC
- > 2014/34/UE ATEX
- > TR CU 010/2011 EAC
- > TR CU 004/2011 EAC
- > TR CU 020/2011 EAC
- > ASME

Responsible Editor: Zanotti S.p.A. Via M.L. King, 30 · 46020 Pegognaga (MN) · Italy · www.zanotti.com · P.IVA IT01856570203 · REA 220625

ECPEN21-820 05/2021



The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V.

Compressors information and cooling capacity based on data extracted from J&E Hall website and selection software.