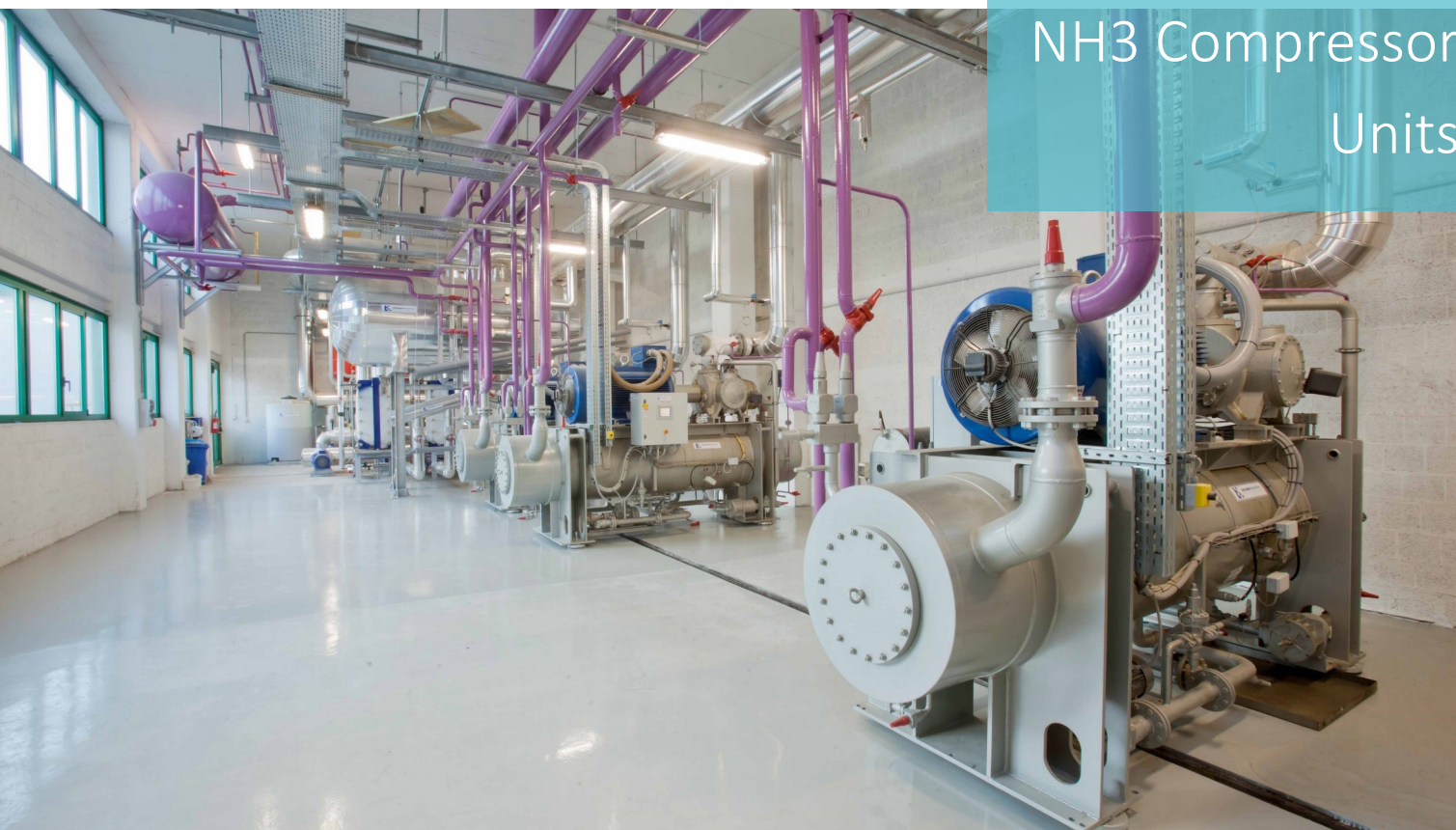


## NH3 Compressor Units



# Industrial Refrigeration

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

Zanotti Industrial Division is an excellence in the refrigeration technology applied to industrial refrigerated stores, logistical 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 plants efficiency always to concur with environmental safety regulations.



ZANOTTI/DAIKIN

## NH3 Compressor Units

With J&E Hall Compressor



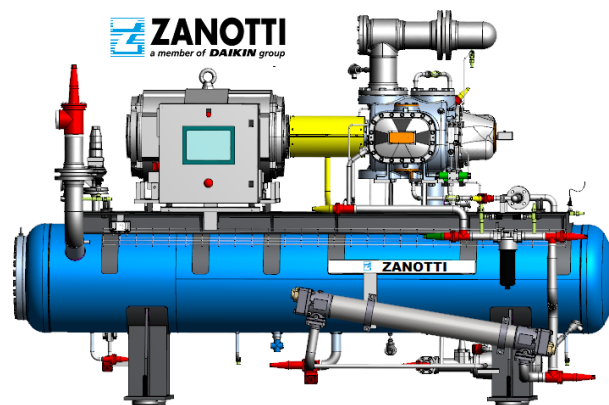
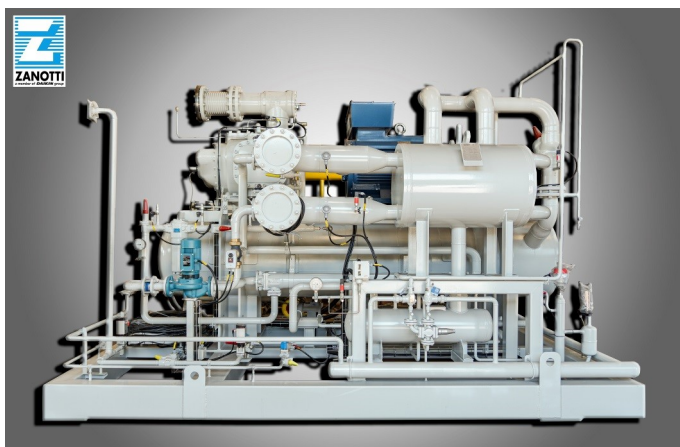
Zanotti has more than 50 years experience on industrial refrigeration systems with specialized know-how on customize solution. Special applications with high quality, high technical and high hygiene standards are fields where Zanotti experience is required. Standard and custom made units for each specific 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 2.500 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 with coalescent filters
- ◆ 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

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## Compressor Technical Details

### J&E Hall Compressor

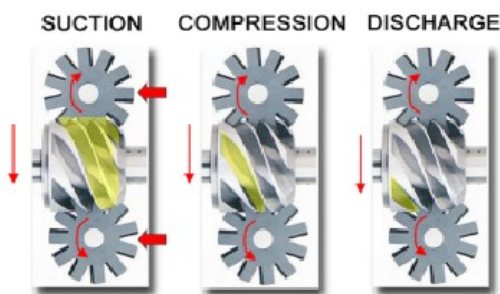
For more than 200 years, J&E Hall International has pioneered the development and application of refrigeration technologies. Today the company is recognised as a leading manufacturer for refrigeration and air conditioning single screw compressors worldwide.



### Single Screw Technology

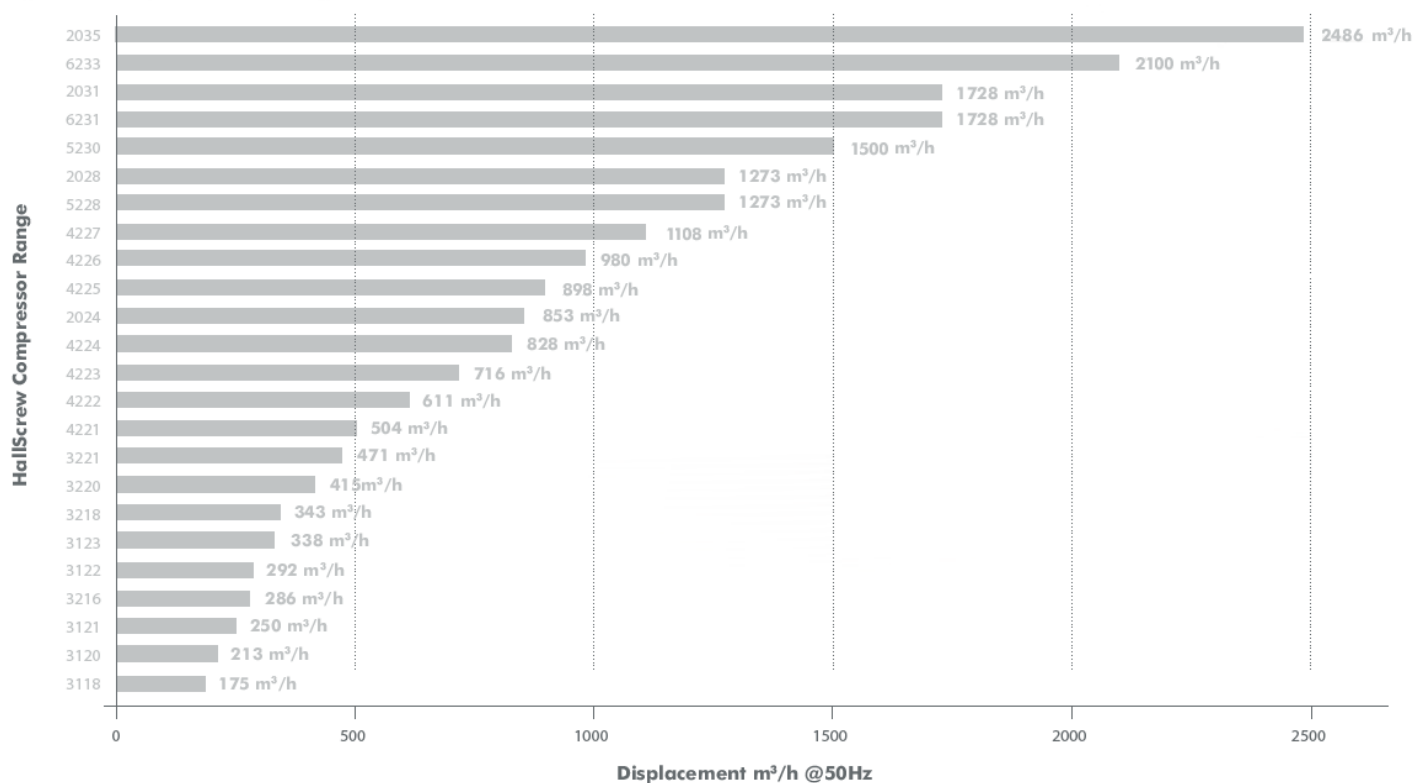
Key to the success of the J&E Hall single screw compressor is its outstanding reliability. Only three basic moving parts are involved, a main rotor which meshes with two diametrically opposed star wheels and results in balanced compression. Compressors are extremely robust and boast long bearing life 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 COMPRESSOR UNIT	COOLING CAPACITY** [kW]					
	R717 (NH3)					
	10	0	-10	-20	-30	-40
ZCU 3216	392	272	182	126*	77*	43*
ZCU 3218	480	334	223	155*	95*	53*
ZCU 3220	593	412	275	191*	117*	65*
ZCU 3221	672	467	312	217*	133*	74*
ZCU 4221	751	520	345	238*	146*	81*
ZCU 4222	911	630	419	288*	177*	98*
ZCU 4223	1067	739	490	338*	207*	115*
ZCU 4224	1234	854	567	391*	239*	133*
ZCU 4225	1362	947	635	453*	288*	168*
ZCU 4226	1487	1033	693	495*	315*	184*
ZCU 4227	1681	1168	783	559*	356*	208*
ZCU 5228	1862	1293	865	610*	386*	224*
ZCU 5230	2285	1592	1072	765*	497*	302*
ZCU 6231	2552	1773	1188	844*	535*	310*
ZCU 6233	3122	2172	1459	1029*	655*	383*
ZCU 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 Compressor Groups offer a wide range of cooling capacities for the most varied applications. Customers have the confidence in our compressor groups technology from deep freezing through to standard refrigeration. Our Compressor Groups 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.



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



Discover our Stationary  
Refrigeration Portfolio:  
[www.zanotti.com/industrial-refrigeration/?lang=en](http://www.zanotti.com/industrial-refrigeration/?lang=en)

### 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

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