

mCHILLER

# TAKA

standard air-cooled ammonia chillers

mCHILLER TAKA 260R, 195R, 130R

The mCHILLER TAKA has a strong and compact design, a long lifespan, and can be used in a wide variety of applications.

The mCHILLER TAKA is designed to meet the needs of semi-industrial and commercial markets such as data centers, process cooling, building facilities, HVAC, etc. With the mCHILLER TAKA, you are getting a low-charge ammonia chiller engineered as the perfect alternative to **synthetic refrigerant chillers**.

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## Characteristics

- Reciprocating MYCOM compressor
- Compact design with a focus on sound and vibration isolation
- Low-charge flooded evaporator
- Micro-channel condenser with EC fans
- Speed control for optimized part load (VSD)
- Network capabilities and remote access
- Optimized for serviceability
- Weather protecting housing



## Key Features

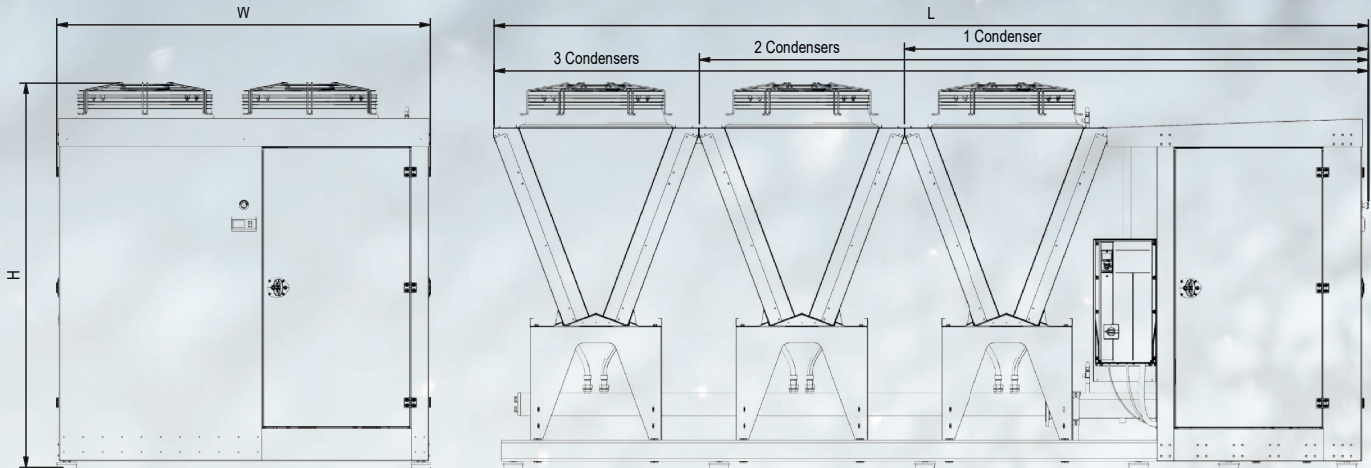
- Standardized product lines
- Plug-and-play solutions
- High energy efficiency all year
- Low-charge natural refrigerants only
- All units are Factory Acceptance Tested

## Benefits

- Future-proof refrigerant
- Convenient installation and commissioning
- Safe and reliable operation
- Competitive pricing and low operation cost
- Durable design and long lifespan

mCHILLER Model	TAKA 260R	TAKA 195R	TAKA 130R
Width	2280 mm	2280 mm	2280 mm
Height (adjustable)	2340-2400 mm	2340-2400 mm	2340-2400 mm
Length 1x condenser	2850 mm	2850 mm	2850 mm
Length 2x condenser	4100 mm	4100 mm	4100 mm
Length 3x condenser	5350 mm	5350 mm	-
Dry weight 1x condenser	3100 kg	2850 kg	2750 kg
Dry weight 2x condenser	3250 kg	3200 kg	3050 kg
Dry weight 3x condenser	3750 kg	3550 kg	-

Values are to be considered as guidance and will be finally confirmed in the quotation process



## Technical Data

General	TAKA 260R		TAKA 195R		TAKA 130R	
	Air-cooled chiller	Air-cooled chiller	Air-cooled chiller	Air-cooled chiller	Air-cooled chiller	Air-cooled chiller
Refrigerant:	NH3 / R717	NH3 / R717	NH3 / R717	NH3 / R717	NH3 / R717	NH3 / R717
Charge (NH3):	24 kg	24 kg	22 kg	22 kg	20 kg	20 kg
Capacity Range:	15,2-100 %	15,2-100 %	20,3-100 %	20,3-100 %	30,5-100 %	30,5-100 %
Cooling capacity:	241.6 kw	111.1 kw	181.9 kw	87.7 kw	120.9 kw	61.6 kw
Condenser capacity:	297.4 kw	151.2 kw	223.7 kw	118.5 kw	148.7 kw	82 kw
Electrical consumption (Chiller):	63.4 kw	45.4 kw	48.2 kw	35.4 kw	33 kw	25.1 kw
EER (Chiller):	3.8	2.4	3.8	2.5	3.7	2.5
COP (Chiller):	4.7	3.3	4.6	3.3	4.5	3.3
<b>Evaporator</b>						
Evap Secondary media:	Water	MEG-30%	Water	MEG-30%	Water	MEG-30%
Evap Secondary inlet:	12 °C	-3 °C	12 °C	-3 °C	12 °C	-3 °C
Evap Secondary outlet:	7 °C	-8 °C	7 °C	-8 °C	7 °C	-8 °C
Secondary media flow:	45 m3/h	21 m3/h	34 m3/h	17 m3/h	23 m3/h	12 m3/h
Secondary side connection:	2x DN100	2x DN100	2x DN100	2x DN100	2x DN100	2x DN100
<b>Condenser</b>						
Ambient temperature:	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C
No. of condenser units:	2	2	2	2	2	2
Sound pressure fan level 10 m.*:	48-60 dB(A)	48-60 dB(A)	48-60 dB(A)	48-60 dB(A)	48-60 dB(A)	48-60 dB(A)
<b>Electrical</b>						
System earthing:	TN-S	TN-S	TN-S	TN-S	TN-S	TN-S
Input voltage:	3x400VAC+PE	3x400VAC+PE	3x400VAC+PE	3x400VAC+PE	3x400VAC+PE	3x400VAC+PE
Rated package current:	158 A	158 A	107 A	107 A	80 A	80 A
IK Max.:	25 KA	25 KA	25 KA	25 KA	25 KA	25 KA
Maximum fuse:	200 A	200 A	125 A	125 A	100 A	100 A
Slave communication:	Modbus TCP/IP	Modbus TCP/IP	Modbus TCP/IP	Modbus TCP/IP	Modbus TCP/IP	Modbus TCP/IP

Capacity according to EN12900

\*According to EN13487 free field condition and reference to ISO 3744

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