

YGT

Air-cooled VSD screw chiller with HFO

Cooling capacities from 401 kW to 983 kW

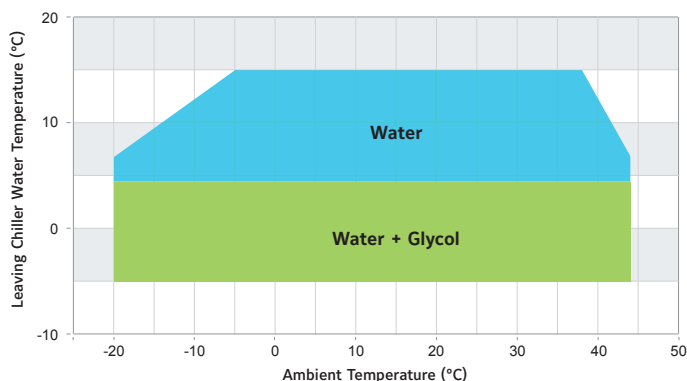


Features

YORK® YGT premium efficiency air-cooled VSD screw chillers from Johnson Controls deliver class-leading efficiency at both full load and part load condition. Built upon decades of industry-leading chiller expertise, our next-generation air-cooled screw chiller portfolio provides lower operating costs, increased application flexibility, reduced sound levels, optimized controls and world-class reliability.

Thanks to the combination of high efficiency and the use of the new 4th generation HFO refrigerant R1234ze, the chiller SEER surpasses the Ecodesign Tier 2 requirement and contributes to the reduction of the Total Equivalent Warming Impact (TEWI).

Operating limits



Design conditions requirements beyond above mentioned Operating Envelope can be reviewed and quoted as Special Quotes

Scope

- Capacity range: 401 to 983 kW
- Capacity sizes: 7 models
- Refrigerant R1234ze
- Ecodesign Tier 2 compliance
- Two efficiency levels: Single or Dual VSD
- Leak detector as standard

Options

- Full Heat Recovery (Special Request)
- Integrated Hydronic Kit (dual/high pressure pumps, buffer tank)
- Variable Speed Drive
- Low Sound configuration

Air-cooled VSD screw chiller with HFO

YGT0400 to 1000



Performances

YGT HE - High Efficiency - Single VSD		0400 HE	0450 HE	0550 HE	0650 HE	0800 HE	0900 HE	1000 HE
Cooling capacity	kW	401.0	415.9	535.3	652.7	796.0	880.6	983.1
EER		3.16	3.17	3.13	3.08	3.08	3.16	3.13
SEER		4.80	4.84	4.70	4.75	4.80	4.90	4.89
$\eta_{s,c}$		189.0	190.6	185.0	187.0	189.0	193.0	192.6
Power input	kW	127.1	131.3	171.2	212.1	258.3	278.3	314.0
Absorbed current	A	214.8	234.0	290.0	356.1	437.0	477.5	546.0
Number of compressors / circuits		1 / 1	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
Number of EC fans		8	10	10	12	14	18	18
Airflow	m ³ /h	156900	185060	200600	242000	286600	350200	363400
Water flow	m ³ /h	69.0	71.9	91.8	112.5	136.9	151.4	168.9
Pressure drop	kPa	34.3	36.8	26.6	28.7	27.8	32.2	26.5
Refrigerant charge	kg	80	90	100	120	140	170	175
Sound Power Level	dBA	94	96	97	97	98	99	99
Power supply		400V /3PH/ 50Hz						
Unit maximum operating current	A	422	490	630	774	835	998	1106
Unit peak current	A	614	881	775	977	1101	1347	1513

YGT XHE - Extra High Efficiency - Dual VSD		0450 XHE	0550 XHE	0650 XHE	0800 XHE	0900 XHE	1000 XHE	
Cooling capacity	kW	415.9	535.3	652.7	796.0	880.6	983.1	
EER		3.17	3.13	3.08	3.08	3.16	3.13	
SEER		5.02	4.93	5.00	5.02	5.12	5.10	
$\eta_{s,c}$		197.8	194.2	197.0	197.8	201.8	201.0	
Power input	kW	131,3	171,2	212,1	258,3	278,3	314,0	
Absorbed current	A	234,0	290,0	356,1	437,0	477,5	546,0	
Number of compressors / circuits		2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	
Number of EC fans		10	10	12	14	18	18	
Airflow	m ³ /h	185060	200600	242000	286600	350200	363400	
Water flow	m ³ /h	71,9	91,8	112,5	136,9	151,4	168,9	
Pressure drop	kPa	36,8	26,6	28,7	27,8	32,2	26,5	
Refrigerant charge	kg	90	100	120	140	170	175	
Sound Power Level	dBA	96	97	97	98	99	99	
Power supply		400V /3PH/ 50Hz						
Unit maximum operating current	A	490	630	774	835	998	1106	
Unit peak current	A	601	776	965	1027	1226	1361	

Data calculated at Eurovent conditions. This data is subject to change without prior notice.

Cooling capacities in kW given for 12/7°C water leaving temperature and 35°C ambient temperature.

Ecodesign figures are calculated following variable water and variable outlet approach (VW/VO). For other Ecodesign calculations, please contact your JCI representative.

Technical data

YGT HE - High Efficiency - Single VSD			0400 HE	0450 HE	0550 HE	0650 HE	0800 HE	0900 HE	1000 HE
Dimensions	Length	mm	5060	6200	6200	7340	8480	10760	10760
	Width	mm	2260						
	Height	mm	2600						

YGT XHE - Extra High Efficiency - Dual VSD			0450 XHE	0550 XHE	0650 XHE	0800 XHE	0900 XHE	1000 XHE	
Dimensions	Length	mm	6200	6200	7340	8480	10760	10760	
	Width	mm	2260						
	Height	mm	2600						



Manufacturer reserves the rights to change specifications without prior notice.