Atlas Copco

Low pressure oil-free air compressors
ZE/ZA 2-6 (VSD) (22-500 kW/30-700 hp)

Sustainable Productivity

Atlas Copco

Providing continuous productivity at the lowest operational cost

As the cornerstone of many production processes, low pressure compressed air is essential to keep the production going. Atlas Copco's full range of low pressure oil-free air solutions offers a combination of high reliability and energy efficiency, providing a 100% certified supply of oil-free air for a broad spectrum of industrial applications.

PNEUMATIC CONVEYING – DENSE PHASE

- Lowest energy cost, representing up to 80% of the compressor life cycle cost.
- Low downtime and low maintenance cost thanks to innovative screw compressor technology.

FERMENTATION

- Lowest energy cost, representing up to 80% of the compressor life cycle cost.
- Low downtime and low maintenance cost thanks to innovative screw compressor technology.
- Very wide flow and pressure operational range.

GLASS INDUSTRY

- High pressure compressor for mold cooling up to 4 bar.
- High-quality low pressure oil-free air at the lowest operating cost.
- Low energy consumption required for continuous operation.

FLUE GAS DESULPHURIZATION (COAL FIRED POWER PLANTS)

- Lowest energy cost, representing up to 80% of the compressor life cycle cost.
- 24/7 uninterrupted pollution control thanks to proven reliable design.

KEEPING YOUR PROCESS UP AND RUNNING

Especially in harsh and dusty environments, a reliable supply of compressed air is critical to ensure process continuity. Every ZE/ZA is designed, manufactured and tested to comply with ISO 9001 certification. The totally enclosed IP55 motor is built to ensure continuous operation and exceptional reliability in dusty and humid environments.

DRIVING DOWN ENERGY COSTS

Energy costs can amount to 80% of the Life Cycle Costs of a compressor. The generation of compressed air can account for more than 40% of a plant's total electricity costs.
Fully compliant with ISO 14001 standards, the ZE/ZA range helps to reduce costs: the IE3 / Nema premium efficiency motor (ZE/A 3-4) and compression element with Teflon rotor coating and cooling jackets provide the highest air volume at the lowest energy consumption.
The integrated Variable Speed Drive (VSD) technology offers approximately 35% extra energy savings by automatically tuning compressor flow to the required air demand.

PROTECTING YOUR REPUTATION AND PRODUCTION

In virtually any application, oil contamination of the air supply causes serious productivity issues and increases costs. As the first manufacturer to receive ISO 8573-1 CLASS 0 (2010) certification for its oil-free air compressors, Atlas Copco has set a new standard in air purity. Focusing on the protection of critical applications as well as today's increasing quality demands, Atlas Copco offers TÜV-certified 100% oil-free air.

EASY INSTALLATION

Delivered ready for use, ZE/ZA compressors come as all-in-one packages including a powerful controller and optional integrated aftercooler.
The complete scope of supply eliminates the need for extras and reduces installation to an absolute minimum, saving you time and money. Built for easy integration in your existing compressed air network, the ZE/ZA compressors are up and running in no time.

ASSURING YOUR PEACE OF MIND

Through continuous investment in our competent, committed and efficient service organization, Atlas Copco ensures superior customer value by maximizing productivity. With a presence in over 170 countries, we offer professional and timely service through interaction and involvement. Uptime is guaranteed by dedicated technicians and 24/7 availability.

The preferred choice for total reliability and efficiency

1

State-of-the-art screw compression element

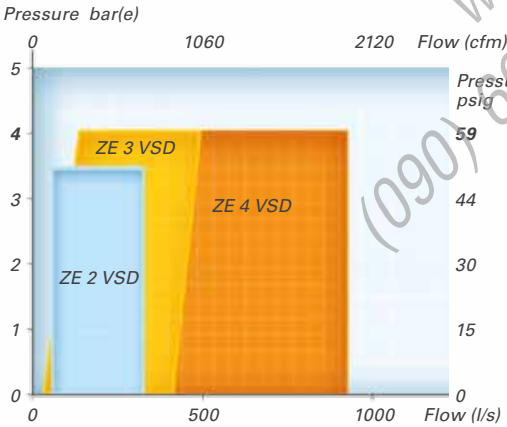
- Unique Teflon coating results in increased efficiency, higher pressures up to 4 bar(e)/58 psig, longer lifetime and protection against corrosion.
- Cooling jackets improve reliability and efficiency by ensuring rotor clearances are always kept to the absolute minimum
- Efficient shaft sealing eliminates the risk of oil leakage, reduces wear, and guarantees 100% oil-free air.

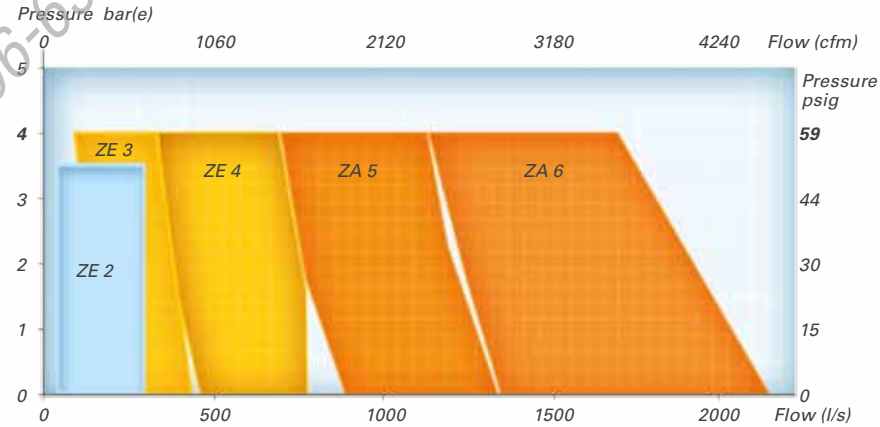
2

Advanced element bearings

- Assuring constant reliability, the element bearings remain stable under varying load conditions.
- Durability is a given: two axial bearings limit internal leakage losses by maintaining small clearances between the rotor surfaces.
- The bearings adapt easily to changing loads, providing the flexibility and efficiency to make production processes run smoothly.

ZE/ZA RANGE OVERVIEW





3

Elektronikon® controller*

- To ensure maximum machine safety and easy networking, the Elektronikon® system controls both the compressor and the integrated converter.
- Monitoring of all parameters to ensure maximum reliability for your compressor installation.

** Mk5 controller available on ZE/A 3-4 (VSD)*

4

High-precision drive system

- Even in dusty and humid environments, the TEFC high-efficiency IE3 / Nema premium motor (ZE/A 3-4) offers assured operation.
- Transmission losses are low, noise and vibration levels are decreased and element lifetime is prolonged thanks to the AGMA Q13/DIN Class 5 gears in the main drive.
- Since no pulleys are used, the replacement of belts and misalignment of elements is avoided, while mechanical losses are limited.

Water-cooled aftercooler (ZA only)

- Corrosion-resistant stainless steel tubing.
- The risk of leaks is eliminated thanks to highly reliable robot welding.
- Aluminium star insert increases heat transfer.
- Cooling water outside tubes guided by baffles:
  - no dead zones – limited fouling;
  - no degradation in cooler performance;
  - easy cleaning;
  - very long service intervals.

5

Air-cooled aftercooler (ZE only)

- User-friendliness is increased and costs reduced thanks to easy installation and easy access for cleaning.
- The highly efficient cooling reduces energy consumption and dryer loads.
- Combi-cooler with pre- and after-cooler allowing for high temperatures and lifetime. Variable speed fans allow for constant temperature control, energy savings and noise reduction (for ZE 3-4 only).

CLASS 0: the industry standard

Oil-free air is used in all kinds of industries where air quality is paramount for the end product and production process. These applications include food and beverage processing, pharmaceutical manufacturing, chemical and petrochemical processing, flue gas desulphurization, fermentation, glass industry, pneumatic conveying, textile manufacturing and many more. In these critical environments, contamination by even the smallest quantities of oil can result in costly production downtime and product spoilage.

FIRST IN OIL-FREE AIR TECHNOLOGY

Over the past sixty years Atlas Copco has pioneered the development of oil-free air technology, resulting in a range of air compressors that provide 100% pure, clean air. Through continuous research and development, Atlas Copco achieved a new milestone, setting the standard for air purity as the first manufacturer to be awarded ISO 8573-1 CLASS 0 certification.

ELIMINATING ANY RISK

As the industry leader committed to meeting the needs of the most demanding customers, Atlas Copco requested the renowned TÜV institute to type-test its range of oil-free compressors. Using the most rigorous testing methodologies available, all possible oil forms were measured across a range of temperatures and pressures. The TÜV found no traces of oil at all in the output air stream. Thus Atlas Copco is not only the first compressor manufacturer to receive CLASS 0 certification, but also exceeds ISO 8573-1 CLASS 0 specifications.

CLASS	Concentration total oil *(aerosol, liquid, vapor)* mg/m^3
0	**As specified by the equipment user or supplier and more stringent than class 1**
1	< 0.01
2	< 0.1
3	< 1
4	< 5

Current ISO 8573-1 (2010) classes (the five main classes and the associated maximum concentration in total oil content).

CLASS 0 MEANS:

- Zero risk of contamination.
- Zero risk of damaged or unsafe products.
- Zero risk of losses from operational downtime.
- Zero risk of damaging your company's hard-won professional reputation.

VSD: Driving down your energy costs

Energy consumption typically represents over 80% of a compressor's Life Cycle Cost. Looking continuously to innovate and reduce customer costs, Atlas Copco pioneered the Variable Speed Drive technology (VSD) in 1994. VSD stands for major energy savings, while protecting the environment for future generations. Due to our ongoing investments in R&D, Atlas Copco offers the widest range of integrated VSD compressors on the market.

VARYING AIR DEMAND IN 92% OF ALL INSTALLATIONS

In almost every production environment, air demand fluctuates depending on different factors (time of the day, week or even month). Extensive measurements and studies of compressed air demand profiles show that 92% of all compressor installations have substantial variations in air demand. Only 8% of all installations have a more stable air demand. Tests prove that even in this case, VSD compressors save energy.

Profile 1

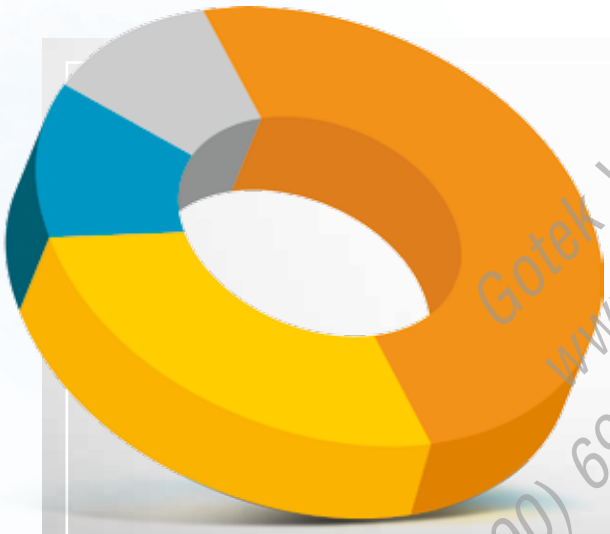
- 64% of all installations
- Factory working 24 hrs/day: low demand at night & high demand during the day

Profile 2

- 28% of all installations
- Factory working 2 shifts/day, no weekend work: erratically varying air demand

Profile 3

- 8% of all installations
- Factory working 2 shifts/day, no weekend work: typical 'fixed' speed application



ENERGY SAVINGS OF UP TO 35%

Atlas Copco's VSD technology closely follows the air demand by automatically adjusting the motor speed. This results in large energy savings of up to 35%. The Life Cycle Cost of a compressor can be cut by an average of 22%. In addition, lowered system pressure with VSD minimizes energy use across your production dramatically.

Total compressor Life Cycle Cost

- *Energy*
- *Investment*
- ***Energy savings with VSD***
- *Maintenance*

FIND OUT HOW MUCH YOU CAN SAVE

Atlas Copco can help you map the air demand profile of your current compressor installation and indicate potential energy savings with VSD compressors. **For more information, please contact your local Atlas Copco representative.**

Optimize your system

With the ZE/ZA, Atlas Copco provides an all-in-one standard package incorporating the latest technology in a built-to-last design. To further optimize your ZE/ZA's performance or to simply tailor it to your specific production environment, optional features are available.

SCOPE OF SUPPLY

Air circuit	Air intake filter and silencer
	Flexible air intake
	Full load/no load regulator
	Outlet air silencer
	Discharge expansion joints
	Coated rotors
	AGMA class 13; DIN class 5 gears
	Outlet air flange
	Integral blow-off
	Check valve
	Safety valve
Oil circuit	Supplied oil-filled
	Completely pre-piped oil circuit
	Built-in oil breather system
Cooling circuit	Air- or water-cooled variant
	Single-point inlet and outlet connections
	Back-flush arrangement for cooler cleaning*

Connections	ANSI flanges
	DIN flanges
Electrical components	IP55 water and dust-proof TEFC motor
	Pre-mounted electric motor
	Pre-mounted electric cubicle
	Elektronikon® control and monitoring system
	Built-in starter
	PT1000 Thermal Protection (≥90 kW motor)
	Thermistors in windings (<90 kW motor)
Framework	Sound-insulated enclosure
	Base frame with forklift slots
Mechanical approval	ASME approval
	CE approval
Electrical approval	IEC
	CSA/UL

**For water-cooled versions only.*

OPTIONS

	Air-cooled		Water-cooled			Air-cooled VSD		Water-cooled VSD
	ZE 2	ZE 3-4	ZA 2	ZA 3-4	ZA 5-6	ZE 2 VSD	ZE 3-4 VSD	ZA 2 VSD
GENERAL								
SPM monitoring equipment	O	O	O	O	O	O	O	O
Wooden case packaging	O	O	O	O	O	O	O	O
Without un-loader	O	O	O	O	O	O	N.A.	O
Air-cooled after-cooler	O	O	N.A.	N.A.	N.A.	O	O	N.A.
Water-cooled after-cooler	N.A.	N.A.	N.A.	N.A.	O	N.A.	N.A.	N.A.
No canopy	N.A.	N.A.	N.A.	N.A.	O	N.A.	N.A.	N.A.
Canopy extension	N.A.	N.A.	N.A.	N.A.	O	N.A.	N.A.	N.A.
Water shut-off valve	N.A.	N.A.	N.A.	O	O	N.A.	N.A.	N.A.
Heavy-duty air-inlet filter	N.A.	N.A.	N.A.	N.A.	O	N.A.	N.A.	N.A.
Teflon free elements	N.A.	N.A.	N.A.	N.A.	N.A.	O	N.A.	O
MOTOR								
Thermistors in motor windings	O	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Anti-condensation heaters + thermistors	N.A.	O	N.A.	N.A.	O	N.A.	O	N.A.
PT1000 in windings and bearings	N.A.	O	O	O	O	N.A.	O	N.A.
Foot-mounted motor	N.A.	N.A.	N.A.	N.A.	O	N.A.	N.A.	N.A.
No motor	N.A.	N.A.	N.A.	N.A.	O	N.A.	N.A.	N.A.
FRAMEWORK								
Anchor pads	O	O	O	O	O	O	N.A.	O
CERTIFICATES								
Material certificates	O	O	O	O	O	O	N.A.	O
ISO1217 performance test	O	O	O	O	O	O	O	O
ISO1217 witnessed performance test	O	O	O	O	O	O	O	O
CUSTOMIZED OPTIONS								
Prefilter	N.A.	O	N.A.	O	O	N.A.	O	N.A.
Nitrogen version	N.A.	O	N.A.	O	O	N.A.	N.A.	N.A.
Winterisation -20dC	N.A.	O	N.A.	O	O	N.A.	N.A.	N.A.
Weatherproof	N.A.	O	N.A.	O	O	N.A.	N.A.	N.A.
Nema 4 cubicle	N.A.	O	N.A.	O	O	N.A.	N.A.	N.A.
Nema 4 cubicle	N.A.	O	N.A.	O	O	N.A.	N.A.	N.A.
Special canopy colour	N.A.	O	N.A.	O	O	N.A.	O	N.A.
High resistance coating for exposed surfaces	N.A.	O	N.A.	O	O	N.A.	O	N.A.
Standard low voltage motor routine test certificate	N.A.	O	N.A.	O	O	N.A.	O	N.A.
Standard medium voltage motor routine test certificate	N.A.	N.A.	N.A.	N.A.	O	N.A.	N.A.	N.A.
Earthing bosses	N.A.	O	N.A.	O	O	N.A.	O	N.A.
Air-cooled version	N.A.	N.A.	N.A.	N.A.	O	N.A.	N.A.	N.A.

Technical specifications

ZE 2 AIR-COOLED & ZA 2 WATER-COOLED – 50 HZ

			ZE 2 air-cooled – 50 Hz					ZA 2 water-cooled – 50 Hz				
Pressure variants	Gear designation		A	C	E	G	I	A	C	E	G	I
	Unloaded power	kW	9	10	11	11	12	9	10	11	11	12
	Sound pressure level at max. 2.0 bar(e)	dB(A)	69	70	71	72	73	69	70	71	72	73
	Sound pressure level at max. 3.5 bar(e)	dB(A)	69	72	73	74	76	69	71	73	74	76
1.00 bar(e)	Free Air Delivery	l/s	73	98	146	193	256	72	97	145	191	254
		m³/h	263	351	527	694	922	260	348	522	688	915
	Outlet temperature with aftercooler	°C	24	25	25	26	25	N.A.	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	95	99	103	117	138	89	93	98	113	134
	Shaft power	kW	12.2	15.6	23.6	32.8	48.5	11.9	15.3	23.1	32.2	47.5
	Motor size	kW	22	22	55	55	55	22	22	55	55	55
1.25 bar(e)	Free Air Delivery	l/s	72	97	145	192	255	71	96	144	190	253
		m³/h	260	348	523	690	918	257	344	518	683	910
	Outlet temperature with aftercooler	°C	25	26	27	28	28	N.A.	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	103	107	112	123	141	97	101	106	120	138
	Shaft power	kW	13.0	17.0	26.0	35.0	51.0	13.0	16.7	25.0	34.4	50.1
	Motor size	kW	22	22	55	55	55	22	22	55	55	55
1.50 bar(e)	Free Air Delivery	l/s	71	96	144	191	254	70	95	143	189	251
		m³/h	257	345	520	686	914	253	340	514	679	905
	Outlet temperature with aftercooler	°C	25	26	28	30	28	N.A.	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	111	116	120	130	145	104	109	114	127	143
	Shaft power	kW	14.6	18.6	27.6	37.6	54.1	14.2	18.2	26.9	36.8	53.0
	Motor size	kW	22	22	55	55	75	22	22	55	55	75
1.75 bar(e)	Free Air Delivery	l/s	71	95	144	190	253	69	94	142	187	250
		m³/h	255	342	516	682	910	250	337	509	674	900
	Outlet temperature with aftercooler	°C	25	26	30	30	31	N.A.	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	119	124	128	136	150	112	117	122	134	149
	Shaft power	kW	16.0	20.0	30.0	40.0	57.0	15.5	19.6	28.9	39.2	55.9
	Motor size	kW	22	22	55	55	75	22	22	55	55	75
2.00 bar(e)	Free Air Delivery	l/s	70	94	143	189	252	68	93	140	186	249
		m³/h	252	339	513	679	906	246	333	505	670	895
	Outlet temperature with aftercooler	°C	26	27	30	32	32	N.A.	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	126	132	135	143	155	119	125	130	141	155
	Shaft power	kW	17.3	21.8	31.8	42.8	60.4	16.7	21.2	31.0	41.7	59.0
	Motor size	kW	22	30	55	55	75	22	30	55	55	75
2.25 bar(e)	Free Air Delivery	l/s	69	94	142	188	251	67	92	139	185	247
		m³/h	249	337	510	675	902	243	329	501	665	890
	Outlet temperature with aftercooler	°C	27	27	31	33	33	N.A.	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	134	140	144	150	161	126	133	138	148	161
	Shaft power	kW	18.7	23.5	34.1	45.5	63.8	18.1	22.8	33.1	44.3	62.2
	Motor size	kW	22	30	55	55	75	22	30	55	55	75
2.50 bar(e)	Free Air Delivery	l/s	69	93	141	187	250	66	91	138	184	246
		m³/h	247	334	507	672	898	239	326	497	661	886
	Outlet temperature with aftercooler	°C	28	28	33	34	33	N.A.	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	142	148	152	158	167	133	140	146	156	167
	Shaft power	kW	20.2	25.3	36.4	48.3	67.2	19.4	24.4	35.2	46.9	65.4
	Motor size	kW	22	30	55	55	75	22	30	55	55	75
2.75 bar(e)	Free Air Delivery	l/s	68	92	140	186	249	66	90	137	182	245
		m³/h	245	332	505	669	895	236	322	493	656	881
	Outlet temperature with aftercooler	°C	29	29	33	34	34	N.A.	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	151	158	161	166	175	140	149	154	163	174
	Shaft power	kW	21.7	27.1	38.7	51.1	70.8	20.8	26.0	37.4	49.5	68.8
	Motor size	kW	30	30	55	55	75	30	30	55	55	75
3.00 bar(e)	Free Air Delivery	l/s	68	92	139	185	248	65	89	136	181	243
		m³/h	243	330	502	666	891	233	319	489	652	876
	Outlet temperature with aftercooler	°C	29	31	33	35	35	N.A.	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	163	170	171	176	183	154	156	163	172	182
	Shaft power	kW	23.6	29.0	41.1	54.1	74.4	22.4	28.0	39.6	52.3	72.2
	Motor size	kW	30	30	55	75	90	30	30	55	75	90
3.25 bar(e)	Free Air Delivery	l/s	67	91	139	184	247	64	88	135	180	242
		m³/h	241	328	499	663	888	229	315	485	648	871
	Outlet temperature with aftercooler	°C	31	32	34	35	35	N.A.	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	181	181	182	186	192	171	171	172	180	189
	Shaft power	kW	25.3	31.0	43.6	57.1	78.1	24.0	29.8	41.8	55.0	75.6
	Motor size	kW	30	30	55	75	90	30	30	55	75	90
3.50 bar(e)	Free Air Delivery	l/s	67	91	138	183	246	63	87	134	179	241
		m³/h	239	326	497	660	885	226	312	482	644	867
	Outlet temperature with aftercooler	°C	32	33	34	36	37	N.A.	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	201	198	195	197	202	191	188	182	189	197
	Shaft power	kW	26.8	32.6	46.1	60.1	81.9	25.3	31.4	44.1	57.8	79.1
	Motor size	kW	30	30	55	75	90	30	30	55	75	90

Dimensions (L x W x H): 2.18 x 1.45 x 2.18 m

Technical specifications

ZE 3 AIR-COOLED – 50 HZ

Pressure variants	Gear designation		F	G	H	I	J	K	L	M
	Unloaded power	kW	24	26	27	28	30	32	34	37
	Sound pressure level at max. 2.0 bar(e)	dB(A)	76	76	77	77	77	77	77	77
	Sound pressure level at max. 3.5 bar(e)	dB(A)	77	77	78	78	78	78	78	N.A.
1.50 bar(e)	Free Air Delivery	l/s	226	242	260	260	301	325	352	383
		m³/h	813	872	937	1006	1084	1171	1268	1377
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40
	Outlet temperature without aftercooler	°C	128	129	130	130	130	131	132	134
	Shaft power	kW	37.1	39.7	42.6	45.8	49.4	53.5	58.2	63.6
	Motor size	kW	75	75	75	75	75	90	90	90
1.75 bar(e)	Free Air Delivery	l/s	224	240	258	277	299	323	350	380
		m³/h	805	864	927	998	1075	1162	1259	1367
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40
	Outlet temperature without aftercooler	°C	138	138	138	139	139	141	142	145
	Shaft power	kW	39.7	42.4	45.4	48.8	52.6	57.0	61.9	67.6
	Motor size	kW	75	75	75	75	75	90	90	90
2.00 bar(e)	Free Air Delivery	l/s	222	238	255	275	296	320	347	377
		m³/h	797	855	919	989	1066	1152	1248	1357
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40
	Outlet temperature without aftercooler	°C	151	151	150	149	149	150	152	155
	Shaft power	kW	42.7	45.6	48.8	52.4	56.5	61.1	66.3	72.4
	Motor size	kW	75	75	75	75	75	90	90	90
2.25 bar(e)	Free Air Delivery	l/s	219	236	253	272	294	318	344	N.A.
		m³/h	790	848	911	981	1058	1143	1239	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	N.A.
	Outlet temperature without aftercooler	°C	161	161	161	162	162	164	166	N.A.
	Shaft power	kW	46.1	49.2	52.6	56.5	60.8	65.7	71.3	N.A.
	Motor size	kW	75	75	75	75	75	90	90	N.A.
2.50 bar(e)	Free Air Delivery	l/s	218	234	251	270	292	315	342	N.A.
		m³/h	784	841	904	973	1050	1135	1231	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	N.A.
	Outlet temperature without aftercooler	°C	174	174	173	173	173	174	176	N.A.
	Shaft power	kW	49.6	52.9	56.6	60.7	65.4	70.6	76.6	N.A.
	Motor size	kW	75	75	75	75	75	90	90	N.A.
2.75 bar(e)	Free Air Delivery	l/s	216	232	250	269	290	314	340	N.A.
		m³/h	778	836	898	967	1044	1129	1224	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	N.A.
	Outlet temperature without aftercooler	°C	186	185	184	184	183	184	186	N.A.
	Shaft power	kW	53.2	56.7	60.7	65.1	70.0	75.5	81.9	N.A.
	Motor size	kW	75	75	75	75	90	90	90	N.A.
3.00 bar(e)	Free Air Delivery	l/s	219	236	253	273	294	318	345	N.A.
		m³/h	789	848	912	981	1059	1145	1242	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	N.A.
	Outlet temperature without aftercooler	°C	200	199	198	198	198	198	198	N.A.
	Shaft power	kW	56.6	60.4	64.5	69.2	74.4	80.2	86.9	N.A.
	Motor size	kW	75	75	75	90	90	90	110	N.A.
3.25 bar(e)	Free Air Delivery	l/s	218	234	252	271	293	317	343	N.A.
		m³/h	785	843	907	977	1054	1140	1236	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	N.A.
	Outlet temperature without aftercooler	°C	204	204	204	204	203	203	204	N.A.
	Shaft power	kW	59.7	63.6	67.9	72.8	78.2	84.3	91.2	N.A.
	Motor size	kW	75	75	75	90	90	110	110	N.A.
3.50 bar(e)	Free Air Delivery	l/s	217	233	251	270	291	315	342	N.A.
		m³/h	780	838	902	972	1049	1135	1231	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	N.A.
	Outlet temperature without aftercooler	°C	214	213	213	213	213	213	213	N.A.
	Shaft power	kW	62.1	66.1	70.6	75.5	81.1	87.4	94.5	N.A.
	Motor size	kW	75	75	75	90	90	110	110	N.A.
3.75 bar(e)	Free Air Delivery	l/s	215	231	249	268	290	314	341	N.A.
		m³/h	774	832	896	966	1043	1130	1226	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	N.A.
	Outlet temperature without aftercooler	°C	223	223	222	222	222	222	222	N.A.
	Shaft power	kW	65.1	69.3	73.9	79.1	84.9	91.4	98.8	N.A.
	Motor size	kW	75	90	90	90	110	110	110	N.A.
4.00 bar(e)	Free Air Delivery	l/s	212	229	246	266	288	312	339	N.A.
		m³/h	764	823	887	958	1036	1122	1219	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	N.A.
	Outlet temperature without aftercooler	°C	232	232	231	231	231	231	231	N.A.
	Shaft power	kW	68.8	73.2	78.1	83.6	89.7	96.5	104.2	N.A.
	Motor size	kW	75	90	90	110	110	110	110	N.A.

Dimensions (L x W x H): 2.40 x 1.63 x 1.96 m (without aftercooler) / 3.20 x 1.63 x 1.96 m (with aftercooler)

Technical specifications

ZA 3 WATER-COOLED – 50 Hz

Pressure variants	Gear designation		F	G	H	I	J	K	L	M
	Unloaded power	kW	23	25	24	27	29	31	33	36
	Sound pressure level at max. 2.0 bar(e)	dB(A)	76	76	76	76	76	76	76	76
	Sound pressure level at max. 3.5 bar(e)	dB(A)	77	77	77	77	77	77	77	N.A.
1.50 bar(e)	Free Air Delivery	l/s	230	246	263	282	303	326	352	382
		m³/h	828	886	947	1015	1091	1174	1267	1375
	Outlet temperature without aftercooler	°C	122	124	125	125	125	127	128	131
	Shaft power	kW	36	39	41	44	48	52	57	62
	Motor size	kW	75	75	75	75	75	90	90	90
1.75 bar(e)	Free Air Delivery	l/s	228	243	260	279	301	323	350	379
		m³/h	821	875	936	1004	1084	1163	1260	1364
	Outlet temperature without aftercooler	°C	131	131	131	133	133	136	137	141
	Shaft power	kW	39	41	44	47	51	56	61	66
	Motor size	kW	75	75	75	75	75	90	90	90
2.00 bar(e)	Free Air Delivery	l/s	226	241	258	277	298	321	347	376
		m³/h	814	868	929	997	1073	1156	1249	1354
	Outlet temperature without aftercooler	°C	142	143	142	142	142	144	146	150
	Shaft power	kW	42	44	47	51	55	59	65	71
	Motor size	kW	75	75	75	75	75	90	90	90
2.25 bar(e)	Free Air Delivery	l/s	224	239	256	275	296	318	344	N.A.
		m³/h	806	860	922	990	1066	1145	1238	N.A.
	Outlet temperature without aftercooler	°C	151	152	152	154	154	157	159	N.A.
	Shaft power	kW	45	48	51	55	59	64	70	N.A.
	Motor size	kW	75	75	75	75	75	90	90	N.A.
2.50 bar(e)	Free Air Delivery	l/s	222	237	254	273	294	316	342	N.A.
		m³/h	799	853	914	983	1058	1138	1231	N.A.
	Outlet temperature without aftercooler	°C	163	164	163	164	164	166	168	N.A.
	Shaft power	kW	48	51	55	59	63	69	75	N.A.
	Motor size	kW	75	75	75	75	75	90	90	N.A.
2.75 bar(e)	Free Air Delivery	l/s	221	236	253	271	293	316	342	N.A.
		m³/h	796	850	911	976	1055	1138	1231	N.A.
	Outlet temperature without aftercooler	°C	174	174	173	174	173	175	177	N.A.
	Shaft power	kW	52	56	59	64	69	74	81	N.A.
	Motor size	kW	75	75	75	75	90	90	90	N.A.
3.00 bar(e)	Free Air Delivery	l/s	224	240	257	275	298	323	350	N.A.
		m³/h	806	864	925	990	1073	1163	1260	N.A.
	Outlet temperature without aftercooler	°C	180	181	182	182	183	183	184	N.A.
	Shaft power	kW	56	59	64	68	74	80	86	N.A.
	Motor size	kW	75	75	75	90	90	90	110	N.A.
3.25 bar(e)	Free Air Delivery	l/s	223	239	257	274	297	321	348	N.A.
		m³/h	803	860	925	986	1069	1156	1253	N.A.
	Outlet temperature without aftercooler	°C	189	190	191	192	191	192	193	N.A.
	Shaft power	kW	59	63	67	72	77	84	90	N.A.
	Motor size	kW	75	75	75	90	90	110	110	N.A.
3.50 bar(e)	Free Air Delivery	l/s	223	238	256	272	296	320	346	N.A.
		m³/h	803	857	922	979	1066	1152	1246	N.A.
	Outlet temperature without aftercooler	°C	197	198	199	201	200	200	201	N.A.
	Shaft power	kW	61	65	70	75	80	87	94	N.A.
	Motor size	kW	75	75	90	90	90	110	110	N.A.
3.75 bar(e)	Free Air Delivery	l/s	221	237	255	271	296	319	345	N.A.
		m³/h	796	853	918	976	1066	1148	1242	N.A.
	Outlet temperature without aftercooler	°C	206	206	206	207	208	208	209	N.A.
	Shaft power	kW	64	68	73	78	84	90	98	N.A.
	Motor size	kW	75	90	90	90	110	110	110	N.A.
4.00 bar(e)	Free Air Delivery	l/s	219	235	253	268	295	318	343	N.A.
		m³/h	788	846	911	965	1062	1145	1235	N.A.
	Outlet temperature without aftercooler	°C	214	213	213	214	216	216	217	N.A.
	Shaft power	kW	68	72	77	82	89	95	104	N.A.
	Motor size	kW	75	90	90	110	110	110	110	N.A.

Dimensions (L x W x H): 2.40 x 1.63 x 1.96 m

Technical specifications

ZE 4 AIR-COOLED – 50 HZ

Pressure variants	Gear designation		C	D	E	G	H	I	J	K	L	M	N
	Unloaded power	kW	38	42	45	48	52	56	59	64	66	69	73
	Sound pressure level at max. 2.0 bar(e)	dB(A)	78	78	78	78	79	79	79	79	80	80	80
	Sound pressure level at max. 3.5 bar(e)	dB(A)	79	79	79	79	80	80	80	80	80	N.A.	N.A.
1.50 bar(e)	Free Air Delivery	l/s	N.A.	412	445	481	521	565	588	640	669	699	731
		m³/h	N.A.	1484	1602	1731	1874	2032	2118	2305	2407	2515	2631
	Outlet temperature with aftercooler	°C	N.A.	40	40	40	40	40	40	40	40	40	40
	Outlet temperature without aftercooler	°C	N.A.	131	131	131	132	132	132	134	136	138	140
	Shaft power	kW	N.A.	65.9	71.3	77.4	84.2	92.0	96.2	105.6	110.9	116.5	122.6
	Motor size	kW	N.A.	75	90	90	90	132	132	160	160	160	160
1.75 bar(e)	Free Air Delivery	l/s	N.A.	409	442	478	517	561	585	637	665	695	727
		m³/h	N.A.	1473	1590	1719	1862	2020	2105	2292	2393	2502	2617
	Outlet temperature with aftercooler	°C	N.A.	40	40	40	40	40	40	40	40	40	40
	Outlet temperature without aftercooler	°C	N.A.	144	143	144	144	144	145	147	148	150	152
	Shaft power	kW	N.A.	72.3	78.1	84.6	92.0	100.2	104.8	114.9	120.4	126.4	132.9
	Motor size	kW	N.A.	75	90	90	90	132	132	160	160	160	160
2.00 bar(e)	Free Air Delivery	l/s	N.A.	406	439	475	514	558	582	633	662	692	724
		m³/h	N.A.	1463	1580	1709	1851	2009	2094	2280	2382	2490	2605
	Outlet temperature with aftercooler	°C	N.A.	40	40	40	40	40	40	40	40	40	40
	Outlet temperature without aftercooler	°C	N.A.	154	154	154	154	155	155	157	158	162	165
	Shaft power	kW	N.A.	78.7	84.9	91.9	99.8	108.6	113.5	124.2	130.2	136.4	143.2
	Motor size	kW	N.A.	90	90	90	110	132	132	160	160	160	160
2.25 bar(e)	Free Air Delivery	l/s	360	404	437	472	512	555	579	631	659	N.A.	N.A.
		m³/h	1297	1454	1571	1700	1842	1999	2085	2271	2372	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	168	167	166	165	166	166	166	168	170	N.A.	N.A.
	Shaft power	kW	76.1	85.1	91.9	99.4	107.9	117.5	122.8	134.4	140.9	N.A.	N.A.
	Motor size	kW	90	90	110	110	132	132	132	160	160	N.A.	N.A.
2.50 bar(e)	Free Air Delivery	l/s	358	402	435	470	510	553	577	629	657	N.A.	N.A.
		m³/h	1290	1447	1564	1693	1835	1992	2078	2264	2365	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	180	179	178	178	178	177	177	179	180	N.A.	N.A.
	Shaft power	kW	81.8	91.4	98.8	107.0	116.1	126.4	132.1	144.6	151.5	N.A.	N.A.
	Motor size	kW	90	110	110	132	132	132	160	160	160	N.A.	N.A.
2.75 bar(e)	Free Air Delivery	l/s	357	400	433	469	508	552	576	627	655	N.A.	N.A.
		m³/h	1284	1441	1558	1687	1829	1986	2072	2258	2359	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	193	192	191	191	191	191	191	192	192	N.A.	N.A.
	Shaft power	kW	87.5	97.9	105.8	114.5	124.3	135.4	141.4	154.8	162.2	N.A.	N.A.
	Motor size	kW	90	110	110	132	132	160	160	200	200	N.A.	N.A.
3.00 bar(e)	Free Air Delivery	l/s	355	399	431	467	507	550	574	626	654	N.A.	N.A.
		m³/h	1279	1436	1553	1682	1823	1981	2066	2252	2354	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	204	204	204	204	201	202	202	203	204	N.A.	N.A.
	Shaft power	kW	88.8	99.3	107.2	116.1	126.0	137.2	143.3	156.8	164.3	N.A.	N.A.
	Motor size	kW	90	110	132	132	132	160	160	200	200	N.A.	N.A.
3.25 bar(e)	Free Air Delivery	l/s	353	397	430	465	505	549	572	624	652	N.A.	N.A.
		m³/h	1272	1430	1547	1675	1817	1975	2060	2246	2348	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	214	214	214	214	211	212	212	213	213	N.A.	N.A.
	Shaft power	kW	93.6	104.7	113.1	122.4	132.9	144.7	151.2	165.4	173.3	N.A.	N.A.
	Motor size	kW	110	110	132	132	160	160	160	200	200	N.A.	N.A.
3.50 bar(e)	Free Air Delivery	l/s	351	395	427	463	503	546	570	622	650	N.A.	N.A.
		m³/h	1264	1421	1538	1667	1809	1966	2052	2237	2339	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	224	224	224	224	221	221	222	223	223	N.A.	N.A.
	Shaft power	kW	98.4	110.0	118.9	128.7	139.7	152.2	159.0	174.0	182.3	N.A.	N.A.
	Motor size	kW	110	132	132	160	160	160	200	200	200	N.A.	N.A.
3.75 bar(e)	Free Air Delivery	l/s	348	392	424	460	499	543	566	618	646	N.A.	N.A.
		m³/h	1253	1410	1527	1655	1796	1954	2039	2224	2325	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	234	233	233	233	230	231	231	232	232	N.A.	N.A.
	Shaft power	kW	103.1	115.3	124.6	134.9	146.5	159.5	166.7	182.4	191.1	N.A.	N.A.
	Motor size	kW	110	132	132	160	160	200	200	200	200	N.A.	N.A.
4.00 bar(e)	Free Air Delivery	l/s	344	387	419	455	494	537	561	612	643	N.A.	N.A.
		m³/h	1237	1394	1509	1637	1778	1935	2019	2204	2315	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	243	243	243	242	239	240	240	241	242	N.A.	N.A.
	Shaft power	kW	107.7	120.5	130.3	141.1	153.2	166.8	174.3	190.8	200.1	N.A.	N.A.
	Motor size	kW	132	132	160	160	200	200	200	200	200	N.A.	N.A.

Dimensions (L x W x H): 2.40 x 1.63 x 1.96 m (without aftercooler < 160 kW) / 3.20 x 1.63 x 1.96 m (with aftercooler and without aftercooler > 132 kW)

Technical specifications

ZA 4 WATER-COOLED – 50 HZ

Pressure variants	Gear designation		C	D	E	G	H	I	J	K	L	M	N
	Unloaded power	kW	37	41	44	47	51	55	58	63	65	68	72
	Sound pressure level at max. 2.0 bar(e)	dB(A)	75	75	75	75	76	76	76	76	76	76	76
	Sound pressure level at max. 3.5 bar(e)	dB(A)	76	76	76	76	77	77	77	78	78	N.A.	N.A.
1.50 bar(e)	Free Air Delivery	l/s	N.A.	427	458	493	531	574	596	646	673	701	730
		m³/h	N.A.	1537	1649	1775	1912	2066	2146	2326	2423	2524	2628
	Outlet temperature without aftercooler	°C	N.A.	131	131	131	132	132	132	134	136	138	140
	Shaft power	kW	N.A.	61	66	72	79	86	90	99	104	109	115
	Motor size	kW	N.A.	75	90	90	90	132	132	160	160	160	160
1.75 bar(e)	Free Air Delivery	l/s	N.A.	423	455	490	528	570	592	643	669	697	726
		m³/h	N.A.	1523	1638	1764	1901	2052	2131	2315	2408	2509	2614
	Outlet temperature without aftercooler	°C	N.A.	144	143	144	144	144	145	147	148	150	152
	Shaft power	kW	N.A.	67	73	80	87	95	99	108	113	119	126
	Motor size	kW	N.A.	75	90	90	90	132	132	160	160	160	160
2.00 bar(e)	Free Air Delivery	l/s	N.A.	420	452	487	525	567	589	639	666	694	723
		m³/h	N.A.	1512	1627	1753	1890	2041	2120	2300	2398	2498	2603
	Outlet temperature without aftercooler	°C	N.A.	154	154	154	154	155	155	157	158	162	165
	Shaft power	kW	N.A.	73	80	87	95	103	107	117	123	129	136
	Motor size	kW	N.A.	90	90	90	110	132	132	160	160	160	160
2.25 bar(e)	Free Air Delivery	l/s	375	418	449	484	522	564	587	637	664	N.A.	N.A.
		m³/h	1350	1505	1616	1742	1879	2030	2113	2293	2390	N.A.	N.A.
	Outlet temperature without aftercooler	°C	168	167	166	165	166	166	166	168	170	N.A.	N.A.
	Shaft power	kW	71	80	87	94	103	112	116	127	133	N.A.	N.A.
	Motor size	kW	90	90	110	110	132	132	132	160	160	N.A.	N.A.
2.50 bar(e)	Free Air Delivery	l/s	374	416	447	482	520	562	585	635	661	N.A.	N.A.
		m³/h	1346	1498	1609	1735	1872	2023	2106	2286	2380	N.A.	N.A.
	Outlet temperature without aftercooler	°C	180	179	178	178	178	177	177	179	180	N.A.	N.A.
	Shaft power	kW	76	86	93	101	111	120	125	137	144	N.A.	N.A.
	Motor size	kW	90	90	110	132	132	132	160	160	160	N.A.	N.A.
2.75 bar(e)	Free Air Delivery	l/s	370	413	444	480	519	561	584	635	662	N.A.	N.A.
		m³/h	1332	1487	1598	1728	1868	2020	2102	2286	2383	N.A.	N.A.
	Outlet temperature without aftercooler	°C	193	192	191	191	191	191	191	192	192	N.A.	N.A.
	Shaft power	kW	83	93	100	109	119	130	135	148	156	N.A.	N.A.
	Motor size	kW	90	110	110	132	132	160	160	200	200	N.A.	N.A.
3.00 bar(e)	Free Air Delivery	l/s	367	410	442	478	517	560	583	635	662	N.A.	N.A.
		m³/h	1321	1476	1591	1721	1861	2016	2099	2286	2383	N.A.	N.A.
	Outlet temperature without aftercooler	°C	203	203	203	203	201	201	202	203	203	N.A.	N.A.
	Shaft power	kW	84	95	102	111	121	132	138	152	159	N.A.	N.A.
	Motor size	kW	90	110	132	132	132	160	160	200	200	N.A.	N.A.
3.25 bar(e)	Free Air Delivery	l/s	365	409	441	477	516	560	583	634	661	N.A.	N.A.
		m³/h	1314	1472	1588	1717	1858	2016	2099	2282	2380	N.A.	N.A.
	Outlet temperature without aftercooler	°C	213	213	213	213	211	211	212	212	213	N.A.	N.A.
	Shaft power	kW	88	99	108	117	127	139	146	160	168	N.A.	N.A.
	Motor size	kW	110	110	132	132	160	160	160	200	200	N.A.	N.A.
3.50 bar(e)	Free Air Delivery	l/s	364	407	440	476	515	558	581	632	659	N.A.	N.A.
		m³/h	1310	1465	1584	1714	1854	2009	2092	2275	2372	N.A.	N.A.
	Outlet temperature without aftercooler	°C	223	223	223	223	220	221	221	222	223	N.A.	N.A.
	Shaft power	kW	92	104	113	123	134	147	154	169	177	N.A.	N.A.
	Motor size	kW	110	132	132	160	160	160	200	200	200	N.A.	N.A.
3.75 bar(e)	Free Air Delivery	l/s	361	404	437	472	512	555	579	630	658	N.A.	N.A.
		m³/h	1300	1454	1573	1699	1843	1998	2084	2268	2369	N.A.	N.A.
	Outlet temperature without aftercooler	°C	233	233	233	233	230	230	230	231	232	N.A.	N.A.
	Shaft power	kW	97	109	119	129	141	154	161	177	186	N.A.	N.A.
	Motor size	kW	110	132	132	160	160	200	200	200	200	N.A.	N.A.
4.00 bar(e)	Free Air Delivery	l/s	356	400	433	468	506	550	574	626	658	N.A.	N.A.
		m³/h	1282	1440	1559	1685	1822	1980	2066	2254	2369	N.A.	N.A.
	Outlet temperature without aftercooler	°C	242	242	242	242	239	239	239	240	241	N.A.	N.A.
	Shaft power	kW	102	115	124	135	147	161	168	185	194	N.A.	N.A.
	Motor size	kW	132	132	132	160	200	200	200	200	200	N.A.	N.A.

Dimensions (L x W x H): 2.40 x 1.63 x 1.96 m (< 160 kW) / 3.20 x 1.63 x 1.96 m (> 132 kW)

Technical specifications

ZA 5 WATER-COOLED – 50 HZ

Pressure variants	Gear designation		B	D	E	F	G	H
	Unloaded power	kW	50	62	67	72	79	86
	Sound pressure level at max. 2.0 bar(e)	dB(A)	N.A.	70	70	71	71	71
	Sound pressure level at max. 3.5 bar(e)	dB(A)	73	73	73	75	75	N.A.
1.00 bar(e)	Free Air Delivery	l/s	N.A.	897	958	1025	1101	1187
		m³/h	N.A.	3229	3448	3691	3964	4271
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	94	95	95	96	97
	Shaft power	kW	N.A.	105.0	113.0	122.0	133.0	145.0
	Motor size	kW	N.A.	160	160	160*	160*	160*
1.25 bar(e)	Free Air Delivery	l/s	N.A.	894	955	1023	1099	1184
		m³/h	N.A.	3220	3439	3682	3955	4263
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	107	107	108	108	109
	Shaft power	kW	N.A.	117.0	126.0	136.0	148.0	161.0
	Motor size	kW	N.A.	160	160	160*	160*	200*
1.50 bar(e)	Free Air Delivery	l/s	N.A.	890	951	1019	1095	1181
		m³/h	N.A.	3205	3425	3670	3944	4253
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	119	119	120	120	121
	Shaft power	kW	N.A.	129.0	139.0	150.0	163.0	177.0
	Motor size	kW	N.A.	160	160	160*	200*	200*
1.75 bar(e)	Free Air Delivery	l/s	N.A.	886	947	1015	1092	1178
		m³/h	N.A.	3189	3410	3655	3931	4241
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	131	131	131	131	132
	Shaft power	kW	N.A.	141.0	152.0	165.0	178.0	194.0
	Motor size	kW	N.A.	160	160	200	200*	200*
2.00 bar(e)	Free Air Delivery	l/s	N.A.	881	943	1011	1088	1175
		m³/h	N.A.	3172	3394	3640	3917	4229
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	142	142	142	142	142
	Shaft power	kW	N.A.	154.0	166.0	179.0	194.0	211.0
	Motor size	kW	N.A.	160	200	200	200*	250*
2.25 bar(e)	Free Air Delivery	l/s	724	877	938	1007	1084	N.A.
		m³/h	2607	3156	3378	3626	3904	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	N.A.
	Outlet temperature without aftercooler	°C	154	153	152	152	152	N.A.
	Shaft power	kW	135.0	166.0	179.0	194.0	210.0	N.A.
	Motor size	kW	160	200	200	200	250*	N.A.
2.50 bar(e)	Free Air Delivery	l/s	720	873	935	1004	1081	N.A.
		m³/h	2591	3142	3365	3613	3891	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	N.A.
	Outlet temperature without aftercooler	°C	164	163	162	162	162	N.A.
	Shaft power	kW	145.0	179.0	193.0	209.0	227.0	N.A.
	Motor size	kW	160	200	200	250	250*	N.A.
2.75 bar(e)	Free Air Delivery	l/s	716	869	931	1000	1078	N.A.
		m³/h	2578	3129	3353	3601	3880	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	N.A.
	Outlet temperature without aftercooler	°C	175	173	172	172	171	N.A.
	Shaft power	kW	156.0	192.0	207.0	223.0	242.0	N.A.
	Motor size	kW	160	200	250	250	250*	N.A.
3.00 bar(e)	Free Air Delivery	l/s	700	853	915	984	1062	N.A.
		m³/h	2519	3071	3295	3544	3822	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	N.A.
	Outlet temperature without aftercooler	°C	192	192	193	195	197	N.A.
	Shaft power	kW	165.0	203.0	218.0	236.0	255.0	N.A.
	Motor size	kW	200	250	250	250	315	N.A.
3.25 bar(e)	Free Air Delivery	l/s	696	849	911	979	1056	N.A.
		m³/h	2507	3056	3278	3525	3802	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	N.A.
	Outlet temperature without aftercooler	°C	202	202	203	205	207	N.A.
	Shaft power	kW	174.0	214.0	230.0	248.0	269.0	N.A.
	Motor size	kW	200	250	250	315	315	N.A.
3.50 bar(e)	Free Air Delivery	l/s	692	844	906	974	1050	N.A.
		m³/h	2491	3039	3260	3506	3780	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	N.A.
	Outlet temperature without aftercooler	°C	211	211	212	214	217	N.A.
	Shaft power	kW	183.0	224.0	241.0	260.0	282.0	N.A.
	Motor size	kW	200	250	250	315	315	N.A.
3.75 bar(e)	Free Air Delivery	l/s	675	833	893	958	1028	N.A.
		m³/h	2430	2998	3215	3449	3700	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	N.A.
	Outlet temperature without aftercooler	°C	220	220	221	223	226	N.A.
	Shaft power	kW	194.0	237.0	254.0	274.0	296.0	N.A.
	Motor size	kW	200	250	315	315	315	N.A.
4.00 bar(e)	Free Air Delivery	l/s	658	821	881	942	1006	N.A.
		m³/h	2369	2957	3171	3393	3621	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	N.A.
	Outlet temperature without aftercooler	°C	229	229	230	232	235	N.A.
	Shaft power	kW	205.0	249.0	267.0	287.0	310.0	N.A.
	Motor size	kW	250	315	315	315	355	N.A.

** DOL-starter*

Dimensions (L x W x H): 3.90 x 2.35 x 2.75 m

Technical specifications

ZA 6 WATER-COOLED – 50 HZ

Pressure variants	Gear designation		C	D	E	F	G	H	J	M	K	L
	Unloaded power	kW	89	99	107	116	126	137	151	158	166	175
	Sound pressure level at max. 2.0 bar(e)	dB(A)	N.A.	73	73	73	73	73	76	76	76	76
	Sound pressure level at max. 3.5 bar(e)	dB(A)	75	75	77	77	79	79	80	80	N.A.	N.A.
1.00 bar(e)	Free Air Delivery	l/s	N.A.	1255	1354	1461	1576	1700	1835	1906	1981	2058
		m³/h	N.A.	4517	4874	5258	5673	6121	6605	6863	7131	7409
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	93	94	94	95	95	96	96	96	97
	Shaft power	kW	N.A.	139.0	153.0	168.0	186.0	206.0	229.0	242.0	256.0	271.0
	Motor size	kW	N.A.	160*	160*	200*	200*	250*	250*	250*	315*	315*
1.25 bar(e)	Free Air Delivery	l/s	N.A.	1252	1352	1458	1573	1696	1829	1899	1972	2047
		m³/h	N.A.	4508	4866	5250	5663	6107	6584	6836	7098	7369
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	106	106	107	107	107	108	108	108	109
	Shaft power	kW	N.A.	158.0	172.0	189.0	207.0	228.0	252.0	265.0	280.0	296.0
	Motor size	kW	N.A.	200*	200*	200*	250*	250*	315*	315*	315*	315*
1.50 bar(e)	Free Air Delivery	l/s	N.A.	1250	1350	1456	1570	1693	1823	1892	1963	2036
		m³/h	N.A.	4499	4858	5243	5654	6093	6563	6810	7065	7328
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	119	118	118	119	119	120	120	120	120
	Shaft power	kW	N.A.	177.0	192.0	209.0	228.0	250.0	275.0	289.0	304.0	320.0
	Motor size	kW	N.A.	200*	200*	250*	250*	315*	315*	315*	315*	355*
1.75 bar(e)	Free Air Delivery	l/s	N.A.	1247	1347	1454	1568	1689	1817	1884	1953	2024
		m³/h	N.A.	4490	4851	5235	5644	6080	6542	6784	7032	7287
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	130	130	130	130	130	130	130	130	131
	Shaft power	kW	N.A.	196.0	213.0	231.0	251.0	274.0	300.0	315.0	331.0	348.0
	Motor size	kW	N.A.	250*	250*	250*	315*	315*	315*	355*	355*	N.A.
2.00 bar(e)	Free Air Delivery	l/s	N.A.	1245	1345	1452	1565	1685	1811	1877	1944	2013
		m³/h	N.A.	4481	4843	5227	5635	6066	6521	6758	7000	7247
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	141	141	140	140	140	141	141	141	141
	Shaft power	kW	N.A.	216.0	233.0	252.0	274.0	298.0	326.0	341.0	357.0	375.0
	Motor size	kW	N.A.	250*	250*	315*	315*	315*	355*	355*	N.A.	N.A.
2.25 bar(e)	Free Air Delivery	l/s	1101	1242	1343	1450	1563	1681	1806	1870	N.A.	N.A.
		m³/h	3965	4472	4836	5220	5625	6052	6501	6732	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	153	152	151	151	151	150	151	151	N.A.	N.A.
	Shaft power	kW	209.0	232.0	250.0	270.0	293.0	318.0	346.0	362.0	N.A.	N.A.
	Motor size	kW	250	250*	315*	315*	315*	355*	355*	500	N.A.	N.A.
2.50 bar(e)	Free Air Delivery	l/s	1098	1240	1341	1448	1560	1677	1800	1863	N.A.	N.A.
		m³/h	3953	4463	4828	5212	5615	6038	6479	6706	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	163	162	161	161	160	160	160	160	N.A.	N.A.
	Shaft power	kW	224.0	249.0	267.0	288.0	311.0	337.0	367.0	383.0	N.A.	N.A.
	Motor size	kW	250	315	315*	315*	355*	355*	500	500	N.A.	N.A.
2.75 bar(e)	Free Air Delivery	l/s	1094	1237	1339	1445	1557	1671	1794	1855	N.A.	N.A.
		m³/h	3940	4454	4820	5204	5606	6025	6458	6680	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	174	172	171	170	170	169	169	169	N.A.	N.A.
	Shaft power	kW	243.0	269.0	289.0	311.0	335.0	363.0	394.0	411.0	N.A.	N.A.
	Motor size	kW	250	315	315*	355*	355*	450	500	500	N.A.	N.A.
3.00 bar(e)	Free Air Delivery	l/s	1095	1227	1323	1426	1538	1658	1788	1857	N.A.	N.A.
		m³/h	3943	4417	4763	5135	5535	5968	6436	6684	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	189	190	190	191	191	192	194	194	N.A.	N.A.
	Shaft power	kW	255.6	284.0	305.5	329.4	356.1	386.1	420.0	438.7	N.A.	N.A.
	Motor size	kW	315	315	315*	355*	400	450	500	500	N.A.	N.A.
3.25 bar(e)	Free Air Delivery	l/s	1092	1223	1319	1422	1533	1653	1783	1852	N.A.	N.A.
		m³/h	3931	4404	4749	5120	5520	5952	6419	6667	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	199	199	200	200	201	202	203	203	N.A.	N.A.
	Shaft power	kW	270.4	300.3	322.8	347.8	375.7	407.1	442.6	462.2	N.A.	N.A.
	Motor size	kW	315	315	355	400	400	450	500	500	N.A.	N.A.
3.50 bar(e)	Free Air Delivery	l/s	1089	1220	1315	1418	1529	1649	1778	1847	N.A.	N.A.
		m³/h	3919	4391	4735	5106	5505	5936	6402	6650	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	208	208	209	209	210	211	212	212	N.A.	N.A.
	Shaft power	kW	285.3	316.5	340.1	366.2	395.4	428.2	465.2	485.6	N.A.	N.A.
	Motor size	kW	315	355	355	400	450	450	500	500	N.A.	N.A.
3.75 bar(e)	Free Air Delivery	l/s	1084	1215	1310	1413	1523	1643	1772	N.A.	N.A.	N.A.
		m³/h	3904	4373	4716	5085	5484	5914	6381	N.A.	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	217	217	217	218	218	219	221	N.A.	N.A.	N.A.
	Shaft power	kW	300.1	332.8	357.4	384.8	415.3	449.5	488.2	N.A.	N.A.	N.A.
	Motor size	kW	315	355	400	400	450	500	500	N.A.	N.A.	N.A.
4.00 bar(e)	Free Air Delivery	l/s	1080	1210	1305	1407	1517	1637	N.A.	N.A.	N.A.	N.A.
		m³/h	3888	4356	4697	5065	5463	5893	N.A.	N.A.	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	226	226	226	226	227	228	N.A.	N.A.	N.A.	N.A.
	Shaft power	kW	314.9	349.0	374.7	403.3	435.1	470.9	N.A.	N.A.	N.A.	N.A.
	Motor size	kW	355	400	400	450	450	500	N.A.	N.A.	N.A.	N.A.

** DOL-starter*

Dimensions (L x W x H): 3.90 x 2.35 x 2.75 m

Technical specifications

ZE 2 AIR-COOLED & ZA 2 WATER-COOLED – 60 HZ

ZE 2 AIR-COOLED – 60 HZ

	Gear designation		L	N	P	R	T
Pressure variants	Unloaded power	hp	11	12	13	13	14
	Sound pressure level at max. 25.38 psig	dB(A)	69	71	71	72	73
	Sound pressure level at max. 50.75 psig	dB(A)	69	72	73	75	77
14.50 psig	Free Air Delivery	cfm	157	215	322	419	553
		m³/h	267	365	548	712	939
	Outlet temperature with aftercooler	°C	24	25	25	25	26
	Outlet temperature without aftercooler	°C	95	99	108	118	140
	Shaft power	hp	16.5	21.7	33.1	45.5	66.8
	Motor size	hp	40	40	75	75	75
18.13 psig	Free Air Delivery	cfm	155	213	320	417	550
		m³/h	264	362	544	708	935
	Outlet temperature with aftercooler	°C	24	26	27	27	28
	Outlet temperature without aftercooler	°C	103	108	116	124	142
	Shaft power	hp	18.1	23.7	35.8	48.7	70.4
	Motor size	hp	40	40	75	75	75
21.75 psig	Free Air Delivery	cfm	154	211	318	415	548
		m³/h	261	359	541	705	931
	Outlet temperature with aftercooler	°C	24	26	28	30	28
	Outlet temperature without aftercooler	°C	111	116	123	131	146
	Shaft power	hp	19.8	25.9	38.6	52.0	74.3
	Motor size	hp	40	40	75	75	100
25.38 psig	Free Air Delivery	cfm	152	210	316	413	545
		m³/h	258	356	537	701	926
	Outlet temperature with aftercooler	°C	25	26	30	30	31
	Outlet temperature without aftercooler	°C	119	124	131	137	151
	Shaft power	hp	21.6	28.0	41.4	55.5	78.6
	Motor size	hp	40	40	75	75	100
29.00 psig	Free Air Delivery	cfm	151	208	314	410	543
		m³/h	256	354	534	697	922
	Outlet temperature with aftercooler	°C	26	27	30	32	32
	Outlet temperature without aftercooler	°C	127	132	138	144	156
	Shaft power	hp	23.5	30.3	44.4	59.1	83.0
	Motor size	hp	40	40	75	75	100
32.63 psig	Free Air Delivery	cfm	149	206	313	409	541
		m³/h	253	351	531	694	918
	Outlet temperature with aftercooler	°C	27	27	31	33	33
	Outlet temperature without aftercooler	°C	135	140	146	151	162
	Shaft power	hp	25.3	32.6	47.5	62.9	87.6
	Motor size	hp	40	40	75	75	100
36.25 psig	Free Air Delivery	cfm	148	205	311	407	538
		m³/h	251	348	528	691	915
	Outlet temperature with aftercooler	°C	28	28	32	34	33
	Outlet temperature without aftercooler	°C	143	149	154	159	168
	Shaft power	hp	27.4	35.0	50.7	66.6	92.3
	Motor size	hp	40	40	75	75	100
39.88 psig	Free Air Delivery	cfm	146	204	309	405	536
		m³/h	249	346	525	688	911
	Outlet temperature with aftercooler	°C	28	29	32	34	35
	Outlet temperature without aftercooler	°C	151	158	163	167	176
	Shaft power	hp	29.5	37.5	53.9	70.5	97.1
	Motor size	hp	40	40	75	75	100
43.50 psig	Free Air Delivery	cfm	145	201	308	403	534
		m³/h	246	341	523	684	908
	Outlet temperature with aftercooler	°C	30	31	33	35	35
	Outlet temperature without aftercooler	°C	166	171	173	176	183
	Shaft power	hp	31.9	40.3	57.3	74.6	101.9
	Motor size	hp	40	40	75	100	120
47.13 psig	Free Air Delivery	cfm	143	199	306	401	532
		m³/h	243	338	520	681	904
	Outlet temperature with aftercooler	°C	31	32	34	35	35
	Outlet temperature without aftercooler	°C	182	182	184	186	192
	Shaft power	hp	34.2	42.6	60.6	78.7	107.0
	Motor size	hp	40	40	75	100	120
50.75 psig	Free Air Delivery	cfm	142	197	305	400	530
		m³/h	241	335	518	679	901
	Outlet temperature with aftercooler		32	33	34	35	37
	Outlet temperature without aftercooler	°C	197	196	196	197	203
	Shaft power	hp	36.3	43.9	64.1	82.9	112.1
	Motor size	hp	40	40	75	100	120

Dimensions (L x W x H): 2.18 x 1.45 x 2.18 m

ZA 2 WATER-COOLED – 60 HZ

	Gear designation		L	N	P	R	T
Pressure variants	Unloaded power	hp	11	12	13	13	14
	Sound pressure level at max. 25.38 psig	dB(A)	69	69	71	72	73
	Sound pressure level at max. 50.75 psig	dB(A)	69	72	73	74	76
14.50 psig	Free Air Delivery	cfm	156	213	320	416	549
		m³/h	264	362	543	707	932
	Outlet temperature without aftercooler	°C	89.1	93.4	103	114	136
	Shaft power	hp	16.1	21.3	32.5	44.7	65.4
	Motor size	hp	40	40	75	75	75
18.13 psig	Free Air Delivery	cfm	153	211	317	413	545
		m³/h	243	339	518	679	902
	Outlet temperature without aftercooler	°C	97	102	111	121	140
	Shaft power	hp	17.7	23.2	35	47.7	68.9
	Motor size	hp	40	40	75	75	75
21.75 psig	Free Air Delivery	cfm	151	208	314	410	542
		m³/h	257	354	534	697	922
	Outlet temperature without aftercooler	°C	105	110	119	128	145
	Shaft power	hp	19.3	25.2	37.7	51	72.8
	Motor size	hp	40	40	75	75	100
25.38 psig	Free Air Delivery	cfm	149	206	312	408	539
		m³/h	253	350	530	693	917
	Outlet temperature without aftercooler	°C	112	118	126	135	150
	Shaft power	hp	21	27.3	40.5	54.2	76.8
	Motor size	hp	40	40	75	75	100
29.00 psig	Free Air Delivery	cfm	147	204	310	405	537
		m³/h	250	347	526	688	912
	Outlet temperature without aftercooler	°C	119	126	134	142	156
	Shaft power	hp	22.7	29.4	43.3	57.7	81.0
	Motor size	hp	40	40	75	75	100
32.63 psig	Free Air Delivery	cfm	145	202	307	402	534
		m³/h	246	343	522	684	907
	Outlet temperature without aftercooler	°C	126	133	142	149	162
	Shaft power	hp	24.5	31.6	46.1	61.2	85.3
	Motor size	hp	40	40	75	75	100
36.25 psig	Free Air Delivery	cfm	143	200	305	400	531
		m³/h	243	339	518	679	902
	Outlet temperature without aftercooler	°C	133	141	150	157	169
	Shaft power	hp	26.3	33.8	49.1	64.8	89.7
	Motor size	hp	40	40	75	75	100
39.88 psig	Free Air Delivery	cfm	141	198	302	397	528
		m³/h	240	336	514	675	897
	Outlet temperature without aftercooler	°C	141	149	158	164	175
	Shaft power	hp	28.0	36.0	52.0	68.0	94.0
	Motor size	hp	40	40	75	75	100
43.50 psig	Free Air Delivery	cfm	139	194	300	395	525
		m³/h	236	330	510	671	892
	Outlet temperature without aftercooler	°C	169	171	166	172	182
	Shaft power	hp	30.0	39.0	55.0	72.0	99.0
	Motor size	hp	40	40	75	100	120
47.13 psig	Free Air Delivery	cfm	136	191	298	392	523
		m³/h	232	325	506	666	888
	Outlet temperature without aftercooler	°C	181	181	175	181	190
	Shaft power	hp	32.0	41.0	58.0	76.0	104.0
	Motor size	hp	40	40	75	100	120
50.75 psig	Free Air Delivery	cfm	134	189	296	390	520
		m³/h	228	321	502	662	883
	Outlet temperature without aftercooler	°C	194	190	185	190	198
	Shaft power	hp	34.0	43.0	61.0	80.0	108.0
	Motor size	hp	40	40	75	100	120

Dimensions (L x W x H): 2.18 x 1.45 x 2.18 m

Technical specifications

ZE 3 AIR-COOLED – 60 Hz

Pressure variants	Gear designation		F	G	H	I	J	K
	Unloaded power	hp	38	40	42	45	48	51
	Sound pressure level at max. 25.38 psig	dB(A)	76	76	77	77	77	77
	Sound pressure level at max. 50.75 psig	dB(A)	77	77	78	78	78	N.A.
21.75 psig	Free Air Delivery	cfm	589	630	675	725	779	840
		m³/h	1001	1071	1147	1231	1324	1427
	Outlet temperature with After-cooler	°C	40	40	40	40	40	40
	Outlet temperature without After-cooler	°C	130	130	131	132	133	135
	Shaft power	hp	63.1	67.4	72.3	77.7	83.9	90.9
	Motor size	hp	100	100	100	100	100	100
25.38 psig	Free Air Delivery	cfm	584	625	670	719	774	834
		m³/h	993	1062	1138	1222	1314	1417
	Outlet temperature with After-cooler	°C	40	40	40	40	40	40
	Outlet temperature without After-cooler	°C	139	139	140	141	143	146
	Shaft power	hp	67.2	71.7	76.9	82.6	89.0	96.4
	Motor size	hp	100	100	100	100	100	100
29.00 psig	Free Air Delivery	cfm	579	620	664	713	768	828
		m³/h	984	1053	1129	1212	1304	1406
	Outlet temperature with After-cooler	°C	40	40	40	40	40	40
	Outlet temperature without After-cooler	°C	149	149	149	151	154	157
	Shaft power	hp	72.0	76.9	82.3	88.4	95.2	103.0
	Motor size	hp	100	100	100	100	125	125
32.63 psig	Free Air Delivery	cfm	574	615	659	708	762	N.A.
		m³/h	976	1045	1120	1203	1295	N.A.
	Outlet temperature with After-cooler	°C	40	40	40	40	40	N.A.
	Outlet temperature without After-cooler	°C	162	162	163	165	167	N.A.
	Shaft power	hp	77.4	82.6	88.4	94.9	102.1	N.A.
	Motor size	hp	100	100	100	125	125	N.A.
36.25 psig	Free Air Delivery	cfm	570	610	655	703	757	N.A.
		m³/h	969	1037	1112	1195	1286	N.A.
	Outlet temperature with After-cooler	°C	40	40	40	40	40	N.A.
	Outlet temperature without After-cooler	°C	173	173	174	176	178	N.A.
	Shaft power	hp	83.1	88.6	94.8	101.7	109.5	N.A.
	Motor size	hp	100	100	125	125	125	N.A.
39.88 psig	Free Air Delivery	cfm	566	607	651	699	752	N.A.
		m³/h	962	1031	1105	1188	1278	N.A.
	Outlet temperature with After-cooler	°C	40	40	40	40	40	N.A.
	Outlet temperature without After-cooler	°C	184	183	184	185	188	N.A.
	Shaft power	hp	88.9	94.8	101.3	108.6	116.9	N.A.
	Motor size	hp	100	125	125	125	125	N.A.
43.50 psig	Free Air Delivery	cfm	575	616	660	709	764	N.A.
		m³/h	976	1046	1122	1205	1298	N.A.
	Outlet temperature with After-cooler	°C	40	40	40	40	40	N.A.
	Outlet temperature without After-cooler	°C	194	194	194	194	194	N.A.
	Shaft power	hp	94.3	100.6	107.5	115.2	123.8	N.A.
	Motor size	hp	125	125	125	125	150	N.A.
47.13 psig	Free Air Delivery	cfm	572	613	657	706	760	N.A.
		m³/h	972	1041	1117	1200	1292	N.A.
	Outlet temperature with After-cooler	°C	40	40	40	40	40	N.A.
	Outlet temperature without After-cooler	°C	203	203	203	203	204	N.A.
	Shaft power	hp	99.2	105.7	112.9	120.9	129.9	N.A.
	Motor size	hp	125	125	125	125	150	N.A.
50.75 psig	Free Air Delivery	cfm	569	610	654	703	757	N.A.
		m³/h	967	1036	1112	1195	1287	N.A.
	Outlet temperature with After-cooler	°C	40	40	40	40	40	N.A.
	Outlet temperature without After-cooler	°C	213	213	213	213	213	N.A.
	Shaft power	hp	102.9	109.6	117.0	125.2	134.5	N.A.
	Motor size	hp	125	125	125	150	150	N.A.
54.38 psig	Free Air Delivery	cfm	566	606	651	700	N.A.	N.A.
		m³/h	961	1030	1106	1189	N.A.	N.A.
	Outlet temperature with After-cooler	°C	40	40	40	40	N.A.	N.A.
	Outlet temperature without After-cooler	°C	222	222	222	222	N.A.	N.A.
	Shaft power	hp	107.6	114.6	122.3	130.8	N.A.	N.A.
	Motor size	hp	125	125	150	150	N.A.	N.A.
58.00 psig	Free Air Delivery	cfm	561	602	647	696	N.A.	N.A.
		m³/h	952	1022	1099	1183	N.A.	N.A.
	Outlet temperature with After-cooler	°C	40	40	40	40	N.A.	N.A.
	Outlet temperature without After-cooler	°C	231	231	231	231	N.A.	N.A.
	Shaft power	hp	113.6	120.9	129.0	137.9	N.A.	N.A.
	Motor size	hp	125	150	150	150	N.A.	N.A.

Dimensions (L x W x H): 2.40 x 1.63 x 1.96 m (without aftercooler) / 3.20 x 1.63 x 1.96 m (with aftercooler)

Technical specifications

ZA 3 WATER-COOLED– 60 Hz

Pressure variants	Gear designation		F	G	H	I	J	K
	Unloaded power	hp	36	39	42	44	46	50
	Sound pressure level at max. 25.38 psig	dB(A)	76	76	76	76	76	76
	Sound pressure level at max. 50.75 psig	dB(A)	77	77	77	77	77	N.A.
21.75 psig	Free Air Delivery	cfm	598	638	680	729	784	841
		m³/h	1015	1084	1156	1238	1332	1429
	Outlet temperature without aftercooler	°C	124	125	126	127	128	131
	Shaft power	hp	61.7	65.7	71.1	76.4	81.8	88.5
	Motor size	hp	100	100	100	100	100	100
25.38 psig	Free Air Delivery	cfm	593	634	676	725	778	835
		m³/h	1008	1076	1148	1231	1321	1418
	Outlet temperature without aftercooler	°C	132	132	133	135	137	141
	Shaft power	hp	65.7	69.7	75.1	80.5	87.2	93.9
	Motor size	hp	100	100	100	100	100	100
29.00 psig	Free Air Delivery	cfm	589	627	670	718	771	828
		m³/h	1001	1066	1138	1220	1310	1408
	Outlet temperature without aftercooler	°C	140	141	141	144	147	151
	Shaft power	hp	71.1	75.1	80.5	85.8	92.5	100.6
	Motor size	hp	100	100	100	100	125	125
32.63 psig	Free Air Delivery	cfm	583	623	665	714	767	N.A.
		m³/h	990	1058	1130	1213	1303	N.A.
	Outlet temperature without aftercooler	°C	152	153	154	157	159	N.A.
	Shaft power	hp	76.4	80.5	85.8	92.5	99.2	N.A.
	Motor size	hp	100	100	100	125	125	N.A.
36.25 psig	Free Air Delivery	cfm	578	619	661	708	761	N.A.
		m³/h	983	1051	1123	1202	1292	N.A.
	Outlet temperature without aftercooler	°C	162	163	164	167	169	N.A.
	Shaft power	hp	81.8	87.2	92.5	99.2	107.3	N.A.
	Motor size	hp	100	100	125	125	125	N.A.
39.88 psig	Free Air Delivery	cfm	576	614	659	703	759	N.A.
		m³/h	979	1044	1120	1195	1289	N.A.
	Outlet temperature without aftercooler	°C	172	172	173	175	178	N.A.
	Shaft power	hp	87.2	92.5	99.2	107.3	115.3	N.A.
	Motor size	hp	100	125	125	125	125	N.A.
43.50 psig	Free Air Delivery	cfm	585	625	670	714	771	N.A.
		m³/h	994	1062	1138	1213	1310	N.A.
	Outlet temperature without aftercooler	°C	180	181	182	182	183	N.A.
	Shaft power	hp	92.5	99.2	105.9	114.0	123.4	N.A.
	Motor size	hp	125	125	125	125	150	N.A.
47.13 psig	Free Air Delivery	cfm	583	623	667	712	769	N.A.
		m³/h	990	1058	1134	1210	1307	N.A.
	Outlet temperature without aftercooler	°C	188	189	190	191	192	N.A.
	Shaft power	hp	97.9	104.6	111.3	119.3	128.7	N.A.
	Motor size	hp	125	125	125	125	150	N.A.
50.75 psig	Free Air Delivery	cfm	581	621	665	708	767	N.A.
		m³/h	986	1055	1130	1202	1303	N.A.
	Outlet temperature without aftercooler	°C	197	197	199	200	201	N.A.
	Shaft power	hp	101.9	108.6	115.3	124.7	132.8	N.A.
	Motor size	hp	125	125	125	150	150	N.A.
54.38 psig	Free Air Delivery	cfm	578	619	663	706	N.A.	N.A.
		m³/h	983	1051	1127	1199	N.A.	N.A.
	Outlet temperature without aftercooler	°C	205	205	206	207	N.A.	N.A.
	Shaft power	hp	105.9	112.6	120.7	130.1	N.A.	N.A.
	Motor size	hp	125	125	150	150	N.A.	N.A.
58.00 psig	Free Air Delivery	cfm	574	614	661	701	N.A.	N.A.
		m³/h	976	1044	1123	1192	N.A.	N.A.
	Outlet temperature without aftercooler	°C	213	212	213	213	N.A.	N.A.
	Shaft power	hp	111.3	119.3	127.4	136.8	N.A.	N.A.
	Motor size	hp	125	150	150	150	N.A.	N.A.

Dimensions (L x W x H): 2.40 x 1.63 x 1.96 m

Technical specifications

ZE 4 AIR-COOLED – 60 Hz

Pressure variants	Gear designation		A	B	C	D	E	F	G	H	I	J	K
	Unloaded power	hp	52	58	62	68	73	76	79	85	92	95	104
	Sound pressure level at max. 25.38 psig	dB(A)	76	76	76	76	77	77	77	78	78	78	78
	Sound pressure level at max. 50.75 psig	dB(A)	77	77	77	77	78	78	78	79	79	N.A.	N.A.
21.75 psig	Free Air Delivery	cfm	N.A.	893	960	1071	1154	1198	1244	1344	1455	1516	1646
		m³/h	N.A.	1518	1631	1819	1960	2035	2114	2284	2473	2575	2797
	Outlet temperature with aftercooler	°C	N.A.	40	40	40	40	40	40	40	40	40	40
	Outlet temperature without aftercooler	°C	N.A.	131	131	132	132	132	132	134	136	138	145
	Shaft power	hp	N.A.	85.4	92.3	104.0	112.9	117.7	122.8	133.9	146.3	153.2	168.3
	Motor size	hp	N.A.	100	100	125	125	150	200	200	200	250	250
25.38 psig	Free Air Delivery	cfm	N.A.	886	953	1064	1146	1190	1237	1337	1447	1507	1638
		m³/h	N.A.	1506	1619	1807	1947	2023	2101	2271	2459	2561	2783
	Outlet temperature with aftercooler	°C	N.A.	40	40	40	40	40	40	40	40	40	40
	Outlet temperature without aftercooler	°C	N.A.	144	143	143	144	144	145	147	149	151	156
	Shaft power	hp	N.A.	94.2	101.7	114.3	123.8	129.0	134.5	146.3	159.7	167.0	183.2
	Motor size	hp	N.A.	100	125	125	150	150	200	200	200	250	250
29.00 psig	Free Air Delivery	cfm	N.A.	880	947	1057	1140	1184	1230	1330	1441	1501	1631
		m³/h	N.A.	1496	1609	1797	1937	2012	2090	2260	2448	2549	2771
	Outlet temperature with aftercooler	°C	N.A.	40	40	40	40	40	40	40	40	40	40
	Outlet temperature without aftercooler	°C	N.A.	154	154	154	154	155	155	157	160	163	168
	Shaft power	hp	N.A.	103.0	111.0	124.6	134.8	140.3	146.1	158.8	173.1	180.9	198.1
	Motor size	hp	N.A.	125	125	150	150	200	200	200	200	250	250
32.63 psig	Free Air Delivery	cfm	786	876	942	1052	1135	1179	1225	1325	1435	N.A.	N.A.
		m³/h	1335	1487	1600	1788	1928	2003	2081	2250	2438	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	168	167	166	166	166	166	166	168	170	N.A.	N.A.
	Shaft power	hp	100.2	111.9	120.5	135.2	146.3	152.4	158.7	172.5	188.0	N.A.	N.A.
	Motor size	hp	125	125	150	150	200	200	200	200	250	N.A.	N.A.
36.25 psig	Free Air Delivery	cfm	781	871	938	1048	1130	1174	1221	1320	1431	N.A.	N.A.
		m³/h	1328	1480	1593	1781	1920	1995	2074	2243	2431	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	180	179	178	178	177	177	177	179	181	N.A.	N.A.
	Shaft power	hp	108.1	120.7	130.0	145.9	157.9	164.4	171.3	186.2	203.0	N.A.	N.A.
	Motor size	hp	125	150	150	200	200	200	200	200	250	N.A.	N.A.
39.88 psig	Free Air Delivery	cfm	778	868	934	1045	1127	1171	1217	1317	1427	N.A.	N.A.
		m³/h	1322	1475	1587	1775	1914	1989	2068	2237	2425	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	193	192	191	190	190	191	191	192	193	N.A.	N.A.
	Shaft power	hp	116.1	129.6	139.6	156.6	169.5	176.5	183.8	199.8	217.8	N.A.	N.A.
	Motor size	hp	150	150	150	200	200	200	200	250	250	N.A.	N.A.
43.50 psig	Free Air Delivery	cfm	775	865	931	1041	1124	1168	1214	1314	1424	N.A.	N.A.
		m³/h	1316	1469	1581	1769	1909	1984	2062	2232	2419	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	204	204	204	204	201	202	202	203	204	N.A.	N.A.
	Shaft power	hp	117.9	131.5	141.7	159.0	172.1	179.1	186.6	202.8	221.1	N.A.	N.A.
	Motor size	hp	150	150	200	200	200	200	250	250	250	N.A.	N.A.
47.13 psig	Free Air Delivery	cfm	771	861	927	1038	1120	1164	1210	1310	1420	N.A.	N.A.
		m³/h	1310	1463	1575	1763	1903	1978	2056	2225	2413	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	214	214	214	214	211	212	212	213	214	N.A.	N.A.
	Shaft power	hp	124.5	139.0	149.8	168.0	181.8	189.3	197.2	214.4	233.7	N.A.	N.A.
	Motor size	hp	150	200	200	200	200	250	250	250	300	N.A.	N.A.
50.75 psig	Free Air Delivery	cfm	766	856	922	1033	1115	1159	1205	1305	1415	N.A.	N.A.
		m³/h	1302	1455	1567	1755	1894	1969	2048	2217	2404	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	224	224	224	224	221	221	222	222	223	N.A.	N.A.
	Shaft power	hp	131.1	146.3	157.7	176.9	191.5	199.4	207.7	225.8	246.1	N.A.	N.A.
	Motor size	hp	150	200	200	200	250	250	250	250	300	N.A.	N.A.
54.38 psig	Free Air Delivery	cfm	760	849	915	1026	1108	1152	1198	1297	1407	N.A.	N.A.
		m³/h	1291	1443	1555	1742	1882	1956	2035	2204	2391	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	234	233	233	233	230	231	231	232	233	N.A.	N.A.
	Shaft power	hp	137.6	153.6	165.6	185.8	201.0	209.3	218.0	237.0	258.4	N.A.	N.A.
	Motor size	hp	150	200	200	250	250	250	250	300	300	N.A.	N.A.
58.00 psig	Free Air Delivery	cfm	750	840	905	1015	1097	1140	1186	1285	1395	N.A.	N.A.
		m³/h	1275	1426	1538	1724	1863	1937	2015	2184	2370	N.A.	N.A.
	Outlet temperature with aftercooler	°C	40	40	40	40	40	40	40	40	40	N.A.	N.A.
	Outlet temperature without aftercooler	°C	243	243	243	242	239	240	240	241	242	N.A.	N.A.
	Shaft power	hp	144.1	160.8	173.3	194.5	210.5	219.1	228.3	248.2	270.6	N.A.	N.A.
	Motor size	hp	200	200	200	250	250	250	250	300	300	N.A.	N.A.

Dimensions (L x W x H): 2.40 x 1.63 x 1.96 m (without aftercooler < 160 kW) / 3.20 x 1.63 x 1.96 m (with aftercooler and without aftercooler > 132 kW)

Technical specifications

ZA 4 WATER-COOLED – 60 HZ

Pressure variants	Gear designation		A	B	C	D	E	F	G	H	I	J	K
	Unloaded power	hp	51	56	60	64	70	75	78	84	89	93	97
	Sound pressure level at max. 25.38 psig	dB(A)	75	75	75	75	76	76	76	76	76	76	76
	Sound pressure level at max. 50.75 psig	dB(A)	76	76	76	76	77	77	77	78	78	N.A.	N.A.
21.75 psig	Free Air Delivery	cfm	N.A.	924	990	1095	1176	1216	1261	1358	1464	1519	1644
		m³/h	N.A.	1570	1681	1861	1998	2066	2142	2308	2488	2581	2794
	Outlet temperature without aftercooler	°C	N.A.	123	124	125	126	126	127	129	131	133	141
	Shaft power	hp	N.A.	83.1	91.2	103.3	111.3	116.7	120.7	131.4	143.5	150.2	166.3
	Motor size	hp	N.A.	100	100	125	125	150	200	200	200	250	250
25.38 psig	Free Air Delivery	cfm	N.A.	917	981	1089	1168	1210	1252	1350	1458	1511	1638
		m³/h	N.A.	1559	1667	1850	1984	2056	2128	2293	2477	2567	2783
	Outlet temperature without aftercooler	°C	N.A.	134	134	134	136	137	138	140	143	145	151
	Shaft power	hp	N.A.	92.5	99.2	112.6	122.0	127.4	131.4	143.5	156.9	163.6	181.0
	Motor size	hp	N.A.	100	125	125	150	150	200	200	200	250	250
29.00 psig	Free Air Delivery	cfm	N.A.	911	975	1083	1161	1204	1246	1343	1449	1504	1629
		m³/h	N.A.	1548	1656	1840	1973	2045	2117	2282	2462	2556	2768
	Outlet temperature without aftercooler	°C	N.A.	141	143	144	145	146	147	149	153	156	162
	Shaft power	hp	N.A.	100.6	108.6	122.0	132.8	138.1	143.5	155.6	169.0	177.0	194.4
	Motor size	hp	N.A.	125	125	150	150	200	200	200	200	250	250
32.63 psig	Free Air Delivery	cfm	818	905	968	1076	1157	1197	1242	1337	1445	N.A.	N.A.
		m³/h	1390	1537	1645	1829	1966	2034	2110	2272	2455	N.A.	N.A.
	Outlet temperature without aftercooler	°C	153	153	153	154	155	156	157	159	162	N.A.	N.A.
	Shaft power	hp	97.9	110.0	118.0	132.8	144.8	150.2	155.6	169.0	183.7	N.A.	N.A.
	Motor size	hp	125	125	150	150	200	200	200	200	250	N.A.	N.A.
36.25 psig	Free Air Delivery	cfm	814	901	964	1072	1153	1193	1237	1333	1441	N.A.	N.A.
		m³/h	1382	1530	1638	1822	1958	2027	2102	2264	2448	N.A.	N.A.
	Outlet temperature without aftercooler	°C	164	163	163	164	165	166	167	169	172	N.A.	N.A.
	Shaft power	hp	105.9	118.0	127.4	143.5	155.6	162.3	167.6	182.4	198.5	N.A.	N.A.
	Motor size	hp	125	150	150	200	200	200	200	200	250	N.A.	N.A.
39.88 psig	Free Air Delivery	cfm	807	894	958	1068	1148	1191	1235	1333	1441	N.A.	N.A.
		m³/h	1372	1519	1627	1814	1951	2023	2099	2264	2448	N.A.	N.A.
	Outlet temperature without aftercooler	°C	176	176	176	176	177	179	180	181	183	N.A.	N.A.
	Shaft power	hp	114.0	127.4	136.8	154.2	167.6	174.3	181.0	197.1	214.6	N.A.	N.A.
	Motor size	hp	150	150	150	200	200	200	200	250	250	N.A.	N.A.
43.50 psig	Free Air Delivery	cfm	799	888	953	1064	1146	1189	1233	1333	1443	N.A.	N.A.
		m³/h	1357	1508	1620	1807	1948	2020	2095	2264	2452	N.A.	N.A.
	Outlet temperature without aftercooler	°C	186	187	188	189	187	188	190	191	192	N.A.	N.A.
	Shaft power	hp	116.7	130.1	139.5	156.9	170.3	177.0	185.1	201.2	219.9	N.A.	N.A.
	Motor size	hp	150	150	200	200	200	200	250	250	250	N.A.	N.A.
47.13 psig	Free Air Delivery	cfm	797	886	951	1062	1144	1187	1233	1331	1439	N.A.	N.A.
		m³/h	1354	1505	1616	1804	1944	2016	2095	2261	2444	N.A.	N.A.
	Outlet temperature without aftercooler	°C	194	196	197	197	195	197	198	200	202	N.A.	N.A.
	Shaft power	hp	122.0	136.8	147.5	164.9	179.7	186.4	195.8	213.2	232.0	N.A.	N.A.
	Motor size	hp	150	200	200	200	200	200	250	250	300	N.A.	N.A.
50.75 psig	Free Air Delivery	cfm	792	884	949	1059	1142	1184	1229	1326	1434	N.A.	N.A.
		m³/h	1346	1501	1613	1800	1940	2012	2088	2254	2437	N.A.	N.A.
	Outlet temperature without aftercooler	°C	202	204	205	206	204	205	206	208	211	N.A.	N.A.
	Shaft power	hp	127.4	143.5	155.6	174.3	189.1	197.1	205.2	223.9	245.4	N.A.	N.A.
	Motor size	hp	150	200	200	200	250	250	250	250	300	N.A.	N.A.
54.38 psig	Free Air Delivery	cfm	786	877	943	1053	1134	1178	1225	1322	1432	N.A.	N.A.
		m³/h	1336	1490	1602	1789	1926	2002	2081	2246	2434	N.A.	N.A.
	Outlet temperature without aftercooler	°C	211	212	213	214	212	213	214	216	218	N.A.	N.A.
	Shaft power	hp	134.1	150.2	162.3	182.4	198.5	206.5	215.9	234.7	256.1	N.A.	N.A.
	Motor size	hp	150	200	200	250	250	250	250	300	300	N.A.	N.A.
58.00 psig	Free Air Delivery	cfm	778	867	934	1042	1123	1168	1214	1316	1426	N.A.	N.A.
		m³/h	1321	1472	1588	1771	1908	1984	2063	2236	2423	N.A.	N.A.
	Outlet temperature without aftercooler	°C	219	220	221	222	221	221	221	223	224	N.A.	N.A.
	Shaft power	hp	140.8	156.9	170.3	191.8	207.9	215.9	225.3	245.4	268.2	N.A.	N.A.
	Motor size	hp	200	200	200	250	250	250	250	300	300	N.A.	N.A.

Dimensions (L x W x H): 2.40 x 1.63 x 1.96 m (< 160 kW) / 3.20 x 1.63 x 1.96 m (> 132 kW)

Technical specifications

ZA 5 WATER-COOLED – 60 HZ

	Gear designation		B	C	D	E	F
Pressure variants	Unloaded power	hp	62	69	77	83	90
	Sound pressure level at max. 25.38 psig	dB(A)	70	70	71	71	71
	Sound pressure level at max. 50.75 psig	dB(A)	73	73	75	N.A.	N.A.
14.50 psig	Free Air Delivery	cfm	1903	2080	2283	2437	2608
		m³/h	3233	3533	3879	4141	4432
	Outlet temperature with aftercooler	°C	26	26	26	26	26
	Outlet temperature without aftercooler	°C	95	96	97	98	99
	Shaft power	hp	140.5	155.8	173.9	187.7	203.4
	Motor size	hp	200*	200*	200*	200*	250*
18.13 psig	Free Air Delivery	cfm	1898	2074	2278	2432	2604
		m³/h	3224	3524	3871	4132	4424
	Outlet temperature with aftercooler	°C	26	26	26	26	26
	Outlet temperature without aftercooler	°C	107	108	109	110	111
	Shaft power	hp	156.8	173.6	193.4	208.6	225.7
	Motor size	hp	200*	200*	200*	250*	250*
21.75 psig	Free Air Delivery	cfm	1889	2067	2271	2426	2598
		m³/h	3210	3511	3859	4121	4414
	Outlet temperature with aftercooler	°C	26	26	26	26	26
	Outlet temperature without aftercooler	°C	119	120	120	121	122
	Shaft power	hp	173.0	191.3	212.9	229.4	248.0
	Motor size	hp	200*	200*	250	250	300*
25.38 psig	Free Air Delivery	cfm	1879	2058	2263	2419	2591
		m³/h	3193	3496	3845	4109	4403
	Outlet temperature with aftercooler	°C	26	26	26	26	26
	Outlet temperature without aftercooler	°C	131	131	131	132	133
	Shaft power	hp	189.8	209.8	233.3	251.3	271.5
	Motor size	hp	200*	250	250	300*	300*
29.00 psig	Free Air Delivery	cfm	1869	2049	2255	2411	2585
		m³/h	3176	3480	3831	4096	4391
	Outlet temperature with aftercooler	°C	26	26	26	26	26
	Outlet temperature without aftercooler	°C	142	142	142	142	143
	Shaft power	hp	206.6	228.2	253.7	273.1	295.0
	Motor size	hp	250	250	300*	300*	422*
32.63 psig	Free Air Delivery	cfm	1860	2040	2247	N.A.	N.A.
		m³/h	3160	3466	3818	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	152	152	152	N.A.	N.A.
	Shaft power	hp	223.6	247.2	275.0	N.A.	N.A.
	Motor size	hp	250	300*	300*	N.A.	N.A.
36.25 psig	Free Air Delivery	cfm	1852	2032	2239	N.A.	N.A.
		m³/h	3146	3452	3805	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	162	162	162	N.A.	N.A.
	Shaft power	hp	240.6	266.1	296.3	N.A.	N.A.
	Motor size	hp		300*	350*	N.A.	N.A.
39.88 psig	Free Air Delivery	cfm	1844	2025	2233	N.A.	N.A.
		m³/h	3134	3440	3793	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	172	171	171	N.A.	N.A.
	Shaft power	hp	257.5	284.8	316.9	N.A.	N.A.
	Motor size	hp	300	300*	350*	N.A.	N.A.
43.50 psig	Free Air Delivery	cfm	1810	1991	2199	N.A.	N.A.
		m³/h	3076	3382	3736	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	192	194	196	N.A.	N.A.
	Shaft power	hp	272.2	300.6	334.1	N.A.	N.A.
	Motor size	hp	300	350	350*	N.A.	N.A.
47.13 psig	Free Air Delivery	cfm	1801	1980	2187	N.A.	N.A.
		m³/h	3060	3365	3716	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	202	203	206	N.A.	N.A.
	Shaft power	hp	286.8	316.5	351.4	N.A.	N.A.
	Motor size	hp	300	350	483	N.A.	N.A.
50.75 psig	Free Air Delivery	cfm	1791	1970	2175	N.A.	N.A.
		m³/h	3043	3346	3695	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	211	213	216	N.A.	N.A.
	Shaft power	hp	301.4	332.3	368.6	N.A.	N.A.
	Motor size	hp	350	350	483	N.A.	N.A.
54.38 psig	Free Air Delivery	cfm	1767	1941	2133	N.A.	N.A.
		m³/h	3002	3298	3624	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	220	222	225	N.A.	N.A.
	Shaft power	hp	318.1	349.9	387.3	N.A.	N.A.
	Motor size	hp	350	483	483	N.A.	N.A.
58.00 psig	Free Air Delivery	cfm	1743	1913	2091	N.A.	N.A.
		m³/h	2961	3251	3552	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	229	231	234	N.A.	N.A.
	Shaft power	hp	334.7	367.5	406.0	N.A.	N.A.
	Motor size	hp	350	483	483	N.A.	N.A.

** DOL-starter*

Dimensions (A x B x C): 3.90 x 2.35 x 2.75 m

Technical specifications

ZA 6 WATER-COOLED – 60 HZ

	Gear designation		A	B	C	D	E	F	G	N	H	I
Pressure variants	Unloaded power	hp	92	102	110	123	133	144	157	164	172	180
	Sound pressure level at max. 25.38 psig	dB(A)	N.A.	73	73	73	73	76	76	76	76	76
	Sound pressure level at max. 50.75 psig	dB(A)	75	77	77	77	79	79	80	80	N.A.	N.A.
14.50 psig	Free Air Delivery	cfm	N.A.	2744	2944	3268	3502	3753	4022	4163	4309	4460
		m³/h	N.A.	4663	5001	5552	5950	6377	6833	7073	7321	7578
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	93	94	95	95	96	97	97	98	98
	Shaft power	hp	N.A.	194.1	211.6	241.8	265.2	291.8	322.1	338.8	356.8	376.2
	Motor size	hp	N.A.	200*	250*	250*	300*	300*	350*	350*	483*	483*
18.13 psig	Free Air Delivery	cfm	N.A.	2739	2939	3262	3495	3743	4007	4145	4287	4433
		m³/h	N.A.	4654	4993	5543	5938	6359	6807	7042	7283	7532
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	106	106	107	107	108	109	109	109	109
	Shaft power	hp	N.A.	219.5	238.0	270.0	294.5	322.2	353.6	370.9	389.5	409.4
	Motor size	hp	N.A.	300*	250*	300*	350*	350*	483*	483*	483*	483*
21.75 psig	Free Air Delivery	cfm	N.A.	2734	2935	3257	3488	3733	3991	4126	4264	4406
		m³/h	N.A.	4646	4986	5534	5927	6342	6782	7010	7245	7486
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	119	118	118	119	120	120	120	121	121
	Shaft power	hp	N.A.	244.8	264.5	298.1	323.8	352.6	385.2	403.0	422.1	442.6
	Motor size	hp	N.A.	300*	300*	350*	350*	483*	483*	483*	483*	483*
25.38 psig	Free Air Delivery	cfm	N.A.	2730	2930	3252	3481	3723	3976	4108	4242	4379
		m³/h	N.A.	4637	4978	5525	5915	6325	6756	6979	7207	7440
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	130	130	130	130	130	131	131	132	132
	Shaft power	hp	N.A.	271.8	292.7	328.3	355.4	385.8	419.9	438.6	458.5	479.8
	Motor size	hp	N.A.	300*	300*	350*	483*	483*	483*	483*	483*	483*
29.00 psig	Free Air Delivery	cfm	N.A.	2725	2926	3247	3474	3713	3961	4089	4220	4352
		m³/h	N.A.	4629	4971	5517	5903	6308	6730	6948	7169	7394
	Outlet temperature with aftercooler	°C	N.A.	26	26	26	26	26	26	26	26	26
	Outlet temperature without aftercooler	°C	N.A.	141	141	140	140	141	141	141	142	142
	Shaft power	hp	N.A.	298.8	321.0	358.6	387.1	418.9	454.6	474.1	494.9	517.1
	Motor size	hp	N.A.	350*	350*	483*	483*	483*	483*	700	600**	600**
32.63 psig	Free Air Delivery	cfm	2435	2720	2921	3242	3468	3703	3947	4071	N.A.	N.A.
		m³/h	4137	4621	4963	5508	5891	6291	6705	6917	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	153	152	151	151	151	151	151	151	N.A.	N.A.
	Shaft power	hp	290.1	321.0	344.1	383.3	412.9	445.9	482.8	503.0	N.A.	N.A.
	Motor size	hp	300*	350*	483	483*	483*	483*	700	700	N.A.	N.A.
36.25 psig	Free Air Delivery	cfm	2429	2715	2917	3236	3460	3692	3932	4053	N.A.	N.A.
		m³/h	4126	4613	4956	5499	5879	6274	6680	6886	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	163	162	161	161	160	160	160	160	N.A.	N.A.
	Shaft power	hp	310.9	343.2	367.3	408.0	438.7	472.9	511.0	531.8	N.A.	N.A.
	Motor size	hp	350*	350*	483	483*	483*	700	700	700	N.A.	N.A.
39.88 psig	Free Air Delivery	cfm	2422	2710	2912	3231	3453	3682	3917	4035	N.A.	N.A.
		m³/h	4115	4604	4948	5490	5867	6256	6654	6855	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	173	172	171	170	170	169	169	169	N.A.	N.A.
	Shaft power	hp	337.0	371.1	396.5	439.4	471.7	507.6	547.5	569.3	N.A.	N.A.
	Motor size	hp	350*	483	483	483*	617	700	700	700	N.A.	N.A.
43.50 psig	Free Air Delivery	cfm	2415	2705	2908	3226	3446	3672	3901	4016	N.A.	N.A.
		m³/h	4104	4596	4941	5481	5856	6239	6628	6824	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	190	190	190	191	192	193	194	195	N.A.	N.A.
	Shaft power	hp	355.2	392.2	419.9	466.6	501.9	541.1	584.9	608.8	N.A.	N.A.
	Motor size	hp	422	422	476	601*	601	700	700	700	N.A.	N.A.
47.13 psig	Free Air Delivery	cfm	2409	2700	2904	3221	3440	3662	3886	3998	N.A.	N.A.
		m³/h	4092	4588	4933	5473	5844	6222	6602	6792	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	199	199	200	200	201	202	204	204	N.A.	N.A.
	Shaft power	hp	375.7	414.5	443.5	492.4	529.4	570.4	616.2	641.2	N.A.	N.A.
	Motor size	hp	422	476	476	601	601	700	700	700	N.A.	N.A.
50.75 psig	Free Air Delivery	cfm	2402	2695	2900	3216	3433	3652	3871	3978	N.A.	N.A.
		m³/h	4081	4580	4926	5465	5833	6205	6576	6759	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	26	N.A.	N.A.
	Outlet temperature without aftercooler	°C	208	208	209	210	210	211	213	213	N.A.	N.A.
	Shaft power	hp	396.2	436.9	467.2	518.3	556.9	599.7	647.5	673.6	N.A.	N.A.
	Motor size	hp	422	476	601	601	601	700	700	700	N.A.	N.A.
54.38 psig	Free Air Delivery	cfm	2395	2691	2896	3212	3427	3642	3855	N.A.	N.A.	N.A.
		m³/h	4069	4572	4920	5457	5822	6188	6550	N.A.	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	26	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	217	217	218	218	219	220	221	N.A.	N.A.	N.A.
	Shaft power	hp	416.7	459.2	490.9	544.4	584.7	629.5	679.4	N.A.	N.A.	N.A.
	Motor size	hp	476	476	601	601	700	700	700	N.A.	N.A.	N.A.
58.00 psig	Free Air Delivery	cfm	2388	2686	2892	3207	3420	3632	N.A.	N.A.	N.A.	N.A.
		m³/h	4057	4564	4913	5449	5811	6172	N.A.	N.A.	N.A.	N.A.
	Outlet temperature with aftercooler	°C	26	26	26	26	26	26	N.A.	N.A.	N.A.	N.A.
	Outlet temperature without aftercooler	°C	226	226	226	227	227	228	N.A.	N.A.	N.A.	N.A.
	Shaft power	hp	437.2	481.6	514.7	570.5	612.5	659.2	N.A.	N.A.	N.A.	N.A.
	Motor size	hp	476	601	601	601	700	700	N.A.	N.A.	N.A.	N.A.

** DOL-starter*
*** Medium voltage*

Dimensions (A x B x C): 3.90 x 2.35 x 2.75 m

Technical specifications
ZE 2 VSD, ZA 2 VSD, ZE 3 VSD & ZE 4 VSD

ZE 2 VSD – 3.5 BAR(E)/50.75 PSIG

		Minimum	Maximum
Free Air Delivery	l/s	87	275
	cfm	183	582
	m³/h	311	989
Shaft power requirement	kW	31.8	92.3
Max. working pressure	bar(e)	3.5	
	psig	50.75	
Unloaded power	kW	12	
Noise level	dB(A)	78	

Dimensions (A x B x C): 2.63 x 1.45 x 2.18 m

ZA 2 VSD – 3.5 BAR(E)/50.75 PSIG

		Minimum	Maximum
Free Air Delivery	l/s	87	270
	cfm	184	572
	m³/h	313	972
Shaft power requirement	kW	31.5	90.2
Max. working pressure	bar(e)	3.5	
	psig	50.75	
Unloaded power	kW	12	
Noise level	dB(A)	78	

Dimensions (A x B x C): 2.63 x 1.45 x 2.18 m

ZE 3 VSD

2 bar(e)/29 psig			Minimum	Maximum
	Free Air Delivery	l/s	135	423
		cfm	286	896
		m³/h	486	1523
	Shaft power requirement	kW	21.0	83.0
	Max. working pressure	bar(e)	2	
		psig	29.00	
	Outlet temperature with aftercooler	°C	40	
	Outlet temperature without aftercooler	°C	154	
	Unloaded power	kW	23	
	Noise level	dB(A)	77	
	Motor size	kW	110	
3.5 bar(e)/50.75 psig			**kW**	**Maximum**
	Free Air Delivery	l/s	129	413
		cfm	273	875
		m³/h	464	1487
	Shaft power requirement	kW	28.0	105.0
	Max. working pressure	bar(e)	4.0	
		psig	58.00	
	Outlet temperature with aftercooler	°C	40	
	Outlet temperature without aftercooler	°C	233	
	Unloaded power	kW	24	
	Noise level	dB(A)	78	
	Motor size	kW	110	

Dimensions (L x W x H): 3.20 x 1.63 x 1.96 m

ZE 4 VSD

2 bar(e)/29 psig			Minimum	Maximum
	Free Air Delivery	l/s	234	859
		cfm	496	1820
		m³/h	842	3092
	Shaft power requirement	kW	46.0	159.0
	Max. working pressure	bar(e)	2	
		psig	29.00	
	Outlet temperature with aftercooler	°C	40	
	Outlet temperature without aftercooler	°C	170	
	Unloaded power	kW	25	
	Noise level	dB(A)	76	
	Motor size	kW	236	
3.5 bar(e)/50.75 psig			**kW**	**Maximum**
	Free Air Delivery	l/s	216	837
		cfm	458	1774
		m³/h	778	3013
	Shaft power requirement	kW	53.0	225.0
	Max. working pressure	bar(e)	4	
		psig	58.00	
	Outlet temperature with aftercooler	°C	40	
	Outlet temperature without aftercooler	°C	244	
	Unloaded power	kW	26	
	Noise level	dB(A)	77	
	Motor size	kW	236	

Dimensions (L x W x H): 3.20 x 1.63 x 1.96 m

Applicable for all technical data:
For sound pressure levels: Measured according to ISO 2151:2004 using ISO 9614/2 (total correction factor for uncertainties of 3dB has to be added conform the test code).

For Free Air Delivery:
- *Measured according to ISO 1217, ed3, Annex C.*
- *Reference conditions:*
  - *Dry air.*
  - *Absolute inlet pressure 1 bar (14.5 psi).*
  - *Cooling and intake air temperature 20°C (68°F).*
  - *Nominal working pressure: identical to the rating of the pressure variant.*

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