Oil-free rotary tooth compressors, 15-55 kW / 20-75 hp
ZT 15-22, ZR/ZT 30-45, ZR/ZT 22-37-55 VSD

Atlas Copco's ZR/ZT oil-free rotary tooth compressors meet your needs for pure oil-free air while offering wide pressure ranges and improved energy efficiency. Developed especially for applications demanding the highest levels of purity, such as pharmaceutical production, food processing and critical electronics, ZR/ZT compressors eliminate the risks of oil contamination as well as the resulting extra costs. These ISO 8573-1 CLASS 0 certified compressors are easy to operate and are available with Variable Speed Drive for further energy savings.

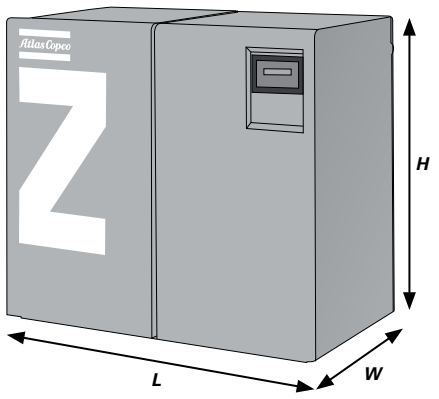
CUSTOMER BENEFITS

- **Certified 100% oil-free air** – ZR/ZT compressors provide 100% pure, clean air, complying with ISO 8573-1 CLASS 0 (2010) certification. CLASS 0 means zero risk of contamination; zero risk of damaged or unsafe products; zero risk of losses from operational downtime; and zero risk of damaging your company's hard-won professional reputation. In 2006, Atlas Copco was the first manufacturer in the world to receive such certification for an oil-free compressor.
- **VSD for direct energy savings** – Energy savings of 35% on average are possible with the Variable Speed Drive versions:
  - Unload losses are reduced to a minimum.
  - No blow-off of compressed air to the atmosphere.
  - Load/no load transition losses are eliminated.
  - Precise pressure control allows a tighter pressure band and a lower average working pressure, resulting in reduced energy consumption.
- **Quiet operation** – The vertical layout of the coolers reduces the noise levels from the fan, motor and element. Moreover, ZR/ZT compressors are supplied in a sound-insulated canopy, thus avoiding the need for a separate compressor room and allowing installation in most working environments.
- **Advanced control and monitoring** – To maximize efficiency and reliability, the Elektronikon® controls the main drive motor and regulates system pressure within a predefined and narrow pressure band. The Elektronikon® controller can be adapted to your specific needs with extra sensors, digital contacts, fieldbus, Internet and SMS communication functions. In combination with the ES multiple compressor controller, the operation of your complete compressor room is optimized.
- **Easy maintenance** – The robust air inlet filter offers a long lifetime and high reliability for long service intervals and low maintenance needs.

Type	Max. working pressure		Capacity FAD*			Installed motor power		Noise level**	Weight without dryer***		Integrated dryer available
	bar(e)	psig	l/s	m³/min	cfm	kW	hp	dB(A)	kg	lbs	
Air-cooled only											
ZT 15	7.5	109	37.6	2.3	80	15	20	65	1060	2337	ID
	8.6	125	34.9	2.1	74						
	10	145	29.9	1.8	63						
ZT 18	7.5	109	48.0	2.9	102	18	25	67	1080	2381	ID/IMD
	8.6	125	45.7	2.7	97						
	10	145	37.2	2.2	79						
ZT 22	7.5	109	59.0	3.5	125	22	30	69	1086	2394	ID/IMD
	8.6	125	53.2	3.2	113						
	10	145	45.0	2.7	95						
Air-(ZT) and water-cooled (ZR)											
ZR/ZT 30	7.5	109	78.7	4.7	167	30	40	63	1432	3157	ID/IMD
	8.6	125	73.7	4.4	156						
ZR/ZT 37	7.5	109	96.5	5.8	204	37	50	65	1432	3157	ID/IMD
	8.6	125	92.1	5.5	195						
ZR/ZT 45	7.5	109	114.4	6.9	243	45	60	67	1432	3157	ID/IMD
	8.6	125	108.9	6.5	231						
ZT 22 VSD	7.5	109	20.6-55.3	1.3-3.4	43.8-117.6	22	30	69	1120	2469	ID
	8.6	125	20.1-51.0	1.2-3.1	42.7-108.5						
	10	145	19.7-47.0	1.2-2.8	41.9-100						
ZR/ZT 37 VSD	7.5	109	41.3-101.2	2.5-6.2	87.8-215.2	37	50	68	1432	3157	ID/IMD
	8.6	125	41.2-97.3	2.5-5.9	87.6-206.9						
ZR/ZT 55 VSD	7.5	109	41.3-142.5	2.5-8.7	87.6-303.1	55	75	68	1432	3157	ID/IMD
	8.6	125	41.2-138.8	2.5-8.4	87.6-295.2						

** Unit performance measured according to ISO 1217, Ed. 4, 2009, Annex E.*
Reference conditions:
- absolute Inlet pressure, specify bar(a), (e) 1 bar (14.5 psi)
- intake air temperature 20°C (68°F)
*** Noise level* measured according to Pneurop/Cagi PN8NTC2, tolerance: 3 dB(A).*
**** Integrated dryers will increase the weight.*
***** For ZT air-cooled units: +3 dB(A).*

FAD is measured at the following working pressure:
- *7.5 bar versions at 7 bar.*
- *8.6 bar versions at 8 bar.*
- *10 bar versions at 9.75 bar.*



	Dimensions L x W x H		
	Length	Width	Height
ZT 15-22	1760 / 69.3"	1026 / 40.4"	1621 / 63.8"
ZR/ZT 30-45	2005 / 78.9"	1026 / 40.4"	1880 / 74.0"
ZT 22 VSD	2195 / 86.4"	1026 / 40.4"	1621 / 63.8"
ZR/ZT 37-55 VSD	2440 / 96.1"	1026 / 40.4"	1880 / 74.0"

Oil-free air- and water-cooled rotary screw compressors, 55-935 kW / 75-1253 hp

Z 55-900 (VSD)

Atlas Copco's Z 55-900 VSD Pack and Full Feature ranges power your production with ultimate reliability and efficiency under the harshest conditions. The first air compressors in the world to be certified Class 0 according to ISO 8573-1 edition 2, 2010, they ensure completely oil-free air to protect your process and end products. Several energy saving features – Variable Speed Drive, energy-free MD dryers and energy recovery – are offered. Z 55-900 VSD compressors are all-inclusive, plug-and-play packages that ensure easy and low cost installation and a quick start-up.

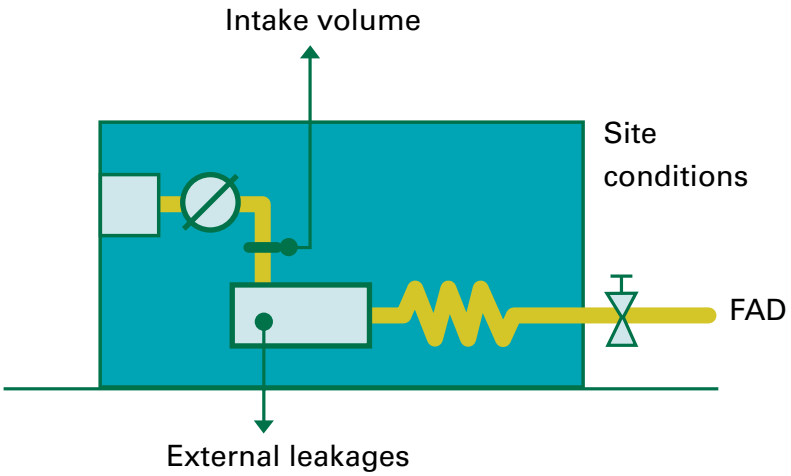
CUSTOMER BENEFITS

- **Highest reliability –** For over 680 years, Z compressors stand for durability and reliability. They incorporate Atlas Copco's proven screw technology, stainless steel coolers, AGMA A4/ DIN 5 gears and state-of-the art electrical drive systems, all of which contribute to overall high reliability. Z compressors are built using long-standing internal engineering practices, and are manufactured and tested according ISO 9001.
- **Certified 100% oil-free –** Z 55-900 compressors provide you with 100% pure, clean air that complies with ISO 8573-1 CLASS 0 (2010) certification. CLASS 0 means zero risk of contamination; zero risk of damaged or unsafe products; zero risk of losses from operational downtime; and zero risk of damaging your company's hard-won professional reputation. In 2006 Atlas Copco was the first manufacturer in the world to receive such certification on an oil-free compressor.
- **Maximum energy savings –** Atlas Copco's unique and time proven rotor coating ensures high efficiency over the compressors lifetime. The state-of-the art air compressor element is powered by a high-efficiency electric motor, contributing to maximum compressor package efficiency. Further optimize your energy savings with our innovative and unique Variable Speed Drive, our energy recovery feature and energy-free MD dryers.
- **Easy installation –** The integrated design of the Z compressor includes internal piping, coolers, motor, lubrication and control system: all supplied as a ready-to-use package. Installation is fault-free, commissioning time is low and no external instrument air is required.
- **Advanced control and monitoring –**To maximize efficiency and reliability, the Elektronikon® controls the main drive motor and regulates system pressure within a predefined and narrow pressure band. The Elektronikon® controller can be adapted to your specific needs with extra sensors, digital contacts, fieldbus, Internet and SMS communication functions. In combination with the ES multiple compressor controller, the operation of your complete compressor room is optimized.

True performance:

Atlas Copco Z-compressors are measured according to ISO 1217, Edition 3, Annex C stipulating the Capacity FAD measurement at the outlet of the package, net of all losses.

Atlas Copco specifications correspond to the capacity and pressure that are effectively available to the user, not to the air volume that is sucked in. Differences can be substantial.



Dimensions & weight

	A	B	C	Weight
ZR 55	2180	1450	2184	1640
ZR 75	2180	1450	2184	1715
ZR 90	2180	1450	2184	1780
ZR 75 VSD	2630	1450	2184	2030
ZR 90 VSD	2630	1450	2184	2030
ZT 55	2180	1450	2184	1760
ZT 75	2180	1450	2184	1835
ZT 90	2180	1450	2184	1900
ZT 75 VSD	2630	1450	2184	2100
ZT 90 VSD	2630	1450	2184	2100

	A	B	C	Weight
ZR 55 FF	2180	1450	2184	1890
ZR 75 FF	2180	1450	2184	1965
ZR 90 FF	2180	1450	2184	2030
ZR 75 VSD-FF	2630	1450	2184	2280
ZR 90 VSD-FF	2630	1450	2184	2280
ZT 55 FF	2880	1450	2184	2360
ZT 75 FF	2880	1450	2184	2475
ZT 90 FF	2880	1450	2184	2500
ZT 75 VSD-FF	3330	1450	2184	2700
ZT 90 VSD-FF	3330	1450	2184	2700

	A	B	C	Weight
ZR 55 *	2180	1450	2184	1640
ZR 75 *	2180	1450	2184	1715
ZR 90 *	2180	1450	2184	1780
ZR 75 VSD *	2630	1450	2184	2030
ZR 90 VSD *	2630	1450	2184	2030
ZR 55 FF *	2880	1450	2184	1990
ZR 75 FF *	2880	1450	2184	2065
ZR 90 FF *	2880	1450	2184	2130
ZR 75 VSD-FF *	3330	1450	2184	2370
ZR 90 VSD-FF *	3330	1450	2184	2370

* Equipped with Energy Recovery system

(1) *Reference conditions:*
- *dry air*
- *absolute Inlet pressure, specify bar(a), (e) 1 bar(a)*
- *cooling and air intake temperature 20 °C*
- *nominal working pressure*
- *performance of the compressor package measured according to ISO 1217, Third Edition, Annex C*

(2) *Cooling water temperature rise of 15 °C*

(3) *Max. capacity is at reference pressure and not at max. pressure*

(4) *Pressure dewpoint is specified for*
- *20 °C cooling air/water temperature*
- *relative humidity of 60 %*
- *nominal working pressure*
- *load level of minimum 50 %*

For VSD: at reference speed

(5) *± 3 dB(A) measured at a distance of 1 m and according to ISO 2151:2004 and using ISO 9614-2*

(6) *Maximum intake / cooling air temperature is 50 °C for HAT versions*

Conversions
- *1 kg = 2.2 lbs*
- *1 mm = 0.039 inch*
- *°F = °C x 9/5 + 32*

ZR 55-90 FF

ZR/ZR FF Watercooled oil-free compressors	Capacity FAD[1]			Installed motor power		Cooling water consumption[2]		Pressure dewpoint[4]	Sound pressure level[5]
						ZR	ZR-FF	ZR-FF	
Type	l/s	m³/min	cfm	kW	hp	l/s	l/s	°C	dB(A)
50 Hz units									
ZR 55 - 7.5	143	8.6	303	55	75	0.9	1.3	-24	65
ZR 55 - 8.6	131	7.9	278	55	75	0.9	1.3	-24	65
ZR 55 - 10	121	7.3	257	55	75	0.9	1.3	-25	65
60 Hz units									
ZR 55 - 7.25	155	9.3	329	55	75	1	1.4	-24	65
ZR 55 - 9	138	8.3	293	55	75	1	1.4	-25	65
ZR 55 - 10.4	128	7.7	271	55	75	1	1.4	-25	65
50 Hz units									
ZR 75 - 7.5	194	11.6	411	75	100	1.2	1.8	-26	65
ZR 75 - 8.6	184	11.0	390	75	100	1.2	1.8	-26	65
ZR 75 - 10	174	10.4	369	75	100	1.2	1.8	-27	65
60 Hz units									
ZR 75 - 7.25	213	12.8	452	75	100	1.3	1.9	-26	65
ZR 75 - 9	194	11.6	411	75	100	1.3	1.9	-27	65
ZR 75 - 10.4	185	11.1	392	75	100	1.3	1.9	-27	65
50 Hz units									
ZR 90 - 7.5	234	14.0	496	90	120	1.4	2.1	-27	65
ZR 90 - 8.6	220	13.2	466	90	120	1.4	2.1	-28	65
ZR 90 - 10	209	12.5	443	90	120	1.4	2.1	-28	65
60 Hz units									
ZR 90 - 7.25	262	15.7	555	90	120	1.6	2.3	-26	65
ZR 90 - 9	235	14.1	498	90	120	1.6	2.3	-28	65
ZR 90 - 10.4	224	13.4	475	90	120	1.6	2.3	-29	65

ZR 75-90 VSD-FF

ZR VSD / ZR VSD-FF Watercooled oil-free compressors	Capacity FAD[1]			Cooling water consumption[2]		Pressure dewpoint[4]	Sound pressure level[5]
				ZR	ZR-FF	ZR-FF	
Types – 50/60 Hz	l/s	m³/min	cfm	l/s	l/s	°C	dB(A)
ZR 75 VSD-9 bar (e)				**1.25**	**1.92**	**-30**	**65**
Max [3]	220	13.2	466				
Min	75	4.5	159				
ZR 75 VSD-10.4 bar (e)				**1.25**	**1.92**	**-30**	**65**
Max[3]	198	11.9	420				
Min	98	5.9	208				
ZR 90 VSD-9 bar (e)				**1.25**	**1.92**	**-30**	**65**
Max[3]	258	15.5	547				
Min	75	4.5	159				
ZR 90 VSD-10.4 bar (e)				**1.25**	**1.92**	**-30**	**65**
Max[3]	232	13.9	492				
Min	98	5.9	208				

[1] Reference conditions:
- *dry air*
- *absolute inlet pressure 1 bar(a)*
- *cooling and air intake temperature 20 °C*
- *nominal working pressure*
- *performance of the compressor package measured according to ISO 1217, Third Edition, Annex C*

[2] Cooling water temperature rise of 15 °C

[3] Max. capacity is at reference pressure and not at max. pressure

[4] Pressure dewpoint is specified for
- *20 °C cooling air/water temperature*
- *relative humidity of 60 %*
- *nominal working pressure*
- *load level of minimum 50 %*
  For VSD: at reference speed

[5] ± 3 dB(A) measured at a distance of 1 m and according to ISO 2151:2004 and using ISO 9614-2

[6] Maximum intake / cooling air temperature is 50 °C for HAT versions

Conversions
- *1 kg = 2.2 lbs*
- *1 mm = 0.039 inch*
- *°F = °C x 9/5 + 32*

ZR 110-750 and ZR 132-900 VSD compressors - 50 Hz

	ZR watercooled	Capacity FAD[1]			Installed motor power	Cooling water consump-tion[2]	Pressure dewpoint [3]	Noise level*[4]		Weight	Dimensions L x W x H		
	Type	l/s	m³/ min	cfm	kW	l/s	°C	w/o duct dB(A)	with duct dB(A)	kg	A mm	B mm	C mm
	50 Hz - 7.5 bar(e)												
FF (with IMD Dryer)	ZR 110	318	19.1	674	110	3.5	-28	70	68	3265	3440	2000	1650
	ZR 132	367	22.0	778	132	4.1	-29	70	68	3390	3440	2000	1650
	ZR 145	394	23.6	835	145	4.2	-30	70	68	3530	3440	2000	1650
	ZR 160	471	28.3	998	160	4.4	-25	67	66	4705	4340	2000	1650
	ZR 200	607	36.4	1286	200	5.1	-25	67	66	5365	4340	2000	1650
	ZR 250	726	43.6	1538	250	5.8	-28	67	66	5360	4340	2000	1650
	ZR 275	780	46.8	1653	275	6.2	-30	67	66	5560	4340	2000	1650
Pack (w/o IMD Dryer)	ZR 110	318	19.1	674	110	1.7	-	67	65	2635	2540	2000	1650
	ZR 132	367	22.0	778	132	1.9	-	67	65	2760	2540	2000	1650
	ZR 145	394	23.6	835	145	2.0	-	67	66	2900	2540	2000	1650
	ZR 160	471	28.3	998	160	2.3	-	67	66	3795	3140	2000	1650
	ZR 200	607	36.4	1286	200	3.0	-	67	66	3995	3140	2000	1650
	ZR 250	726	43.6	1538	250	3.7	-	67	66	3990	3140	2000	1650
	ZR 275	780	46.8	1653	275	4.1	-	67	66	4190	3140	2000	1650
	ZR 300	775	46.5	1642	315	4.0	-	70	69	6650	3700	2400	2120
	ZR 315	855	51.3	1812	315	4.4	-	71	69	6650	3700	2400	2120
	ZR 355	949	56.9	2011	355	4.8	-	71	69	6950	3700	2400	2120
	ZR 400	1049	62.9	2223	400	5.4	-	71	70	7050	3700	2400	2120
	ZR 425	1162	69.7	2462	450	6.2	-	72	70	7250	3700	2400	2120
	ZR 450	1257	75.4	2663	450	7.2	-	73	71	9500	4060	2400	2120
	ZR 500	1387	83.2	2939	500	7.8	-	73	71	9500	4060	2400	2120
	ZR 630	1726	103.6	3657	630	9.4	-	75	73	10225	4060	2400	2120
	ZR 750	2075	124.5	4397	750	11.3	-	75	73	10325	4060	2400	2120

(1) Reference conditions:
- *dry air*
- *absolute inlet pressure 1 bar(a)*
- *cooling and air intake temperature 20 °C*
- *nominal working pressure*
- *performance of the compressor package measured according to ISO 1217, Third Edition, Annex C*

(2) Cooling water temperature rise of 15 °C

(3) Max. capacity is at reference pressure and not at max. pressure

(4) Pressure dewpoint is specified for
- *20 °C cooling air/water temperature*
- *relative humidity of 60 %*
- *nominal working pressure*
- *load level of minimum 50 %*

For VSD: at reference speed

(5) ± 3 dB(A) measured at a distance of 1 m and according to ISO 2151:2004 and using ISO 9614-2

(6) Maximum intake / cooling air temperature is 50 °C for

HAT versions

Conversions
- *1 kg = 2.2 lbs*
- *1 mm = 0.039 inch*
- *°F = °C x 9/5 + 32*

ZR 110-750 and ZR 132-900 VSD compressors - 50 Hz

	ZR water-cooled	Capacity FAD[1]			Installed motor power	Cooling water consumption[2]	Pressure dewpoint[3]	Noise level*[4]		Weight	Dimensions L x W x H		
	Type	l/s	m³/min	cfm	kW	l/s	°C	w/o duct dB(A)	with duct dB(A)	kg	A mm	B mm	C mm
	50 Hz - 8.6 bar(e)												
FF (with IMD Dryer)	ZR 110	285	17.1	604	110	3.1	-28	70	68	3265	3440	2000	1650
	ZR 132	326	19.6	691	132	3.5	-29	70	68	3390	3440	2000	1650
	ZR 132 VSD	372	22.3	778	132	3.9	-28/-32	68-72	66-69	3500	3440	2000	1650
	ZR 145	362	21.7	767	145	3.9	-30	70	68	3530	3440	2000	1650
	ZR 160	435	26.1	922	160	4.2	-25	67	66	4705	4340	2000	1650
	ZR 160 VSD	431	25.9	913	160	4.2	-28/-32	68-74	66-71	3500	3440	2000	1650
	ZR 200	553	33.2	1172	200	4.8	-25	67	66	5365	4340	2000	1650
	ZR 250	691	41.5	1464	250	5.6	-28	67	66	5360	4340	2000	1650
	ZR 250 VSD	721	43.3	1528	250	5.8	-25/-30	63-73	62-71	6080	4340	2000	1650
	ZR 275	723	43.4	1532	275	5.8	-30	67	66	5560	4340	2000	1650
	ZR 315 VSD	836	50.2	1771	299	6.8	-25/-30	63-73	62-71	6080	4340	2000	1650
Pack (w/o IMD Dryer)	ZR 110	285	17.1	604	110	1.5	-	67	65	2635	2540	2000	1650
	ZR 132	326	19.6	691	132	1.7	-	67	65	2760	2540	2000	1650
	ZR 132 VSD	376	22.6	797	132	1.9	-	62-68	61-66	2870	2540	2000	1650
	ZR 145	362	21.7	767	145	1.9	-	67	66	2900	2540	2000	1650
	ZR 160	435	26.1	922	160	2.2	-	67	66	3795	3140	2000	1650
	ZR 160 VSD	436	26.1	922	160	2.2	-	62-70	61-66	2870	2540	2000	1650
	ZR 200	553	33.2	1172	200	2.8	-	67	66	3995	3140	2000	1650
	ZR 250	691	41.5	1464	250	3.5	-	67	66	3990	3140	2000	1650
	ZR 250 VSD	721	43.3	1528	250	3.7	-	63-73	62-71	4710	3140	2000	1650
	ZR 275	723	43.4	1532	275	3.8	-	67	66	4190	3140	2000	1650
	ZR 300	723	43.4	1532	315	4.1	-	71	70	6650	3700	2400	2120
	ZR 315	798	47.9	1691	315	4.5	-	72	70	6650	3700	2400	2120
	ZR 315 VSD	836	50.2	1771	299	4.3	-	63-73	62-71	4710	3140	2000	1650
	ZR 355	886	53.2	1877	355	4.9	-	72	72	6950	3700	2400	2120
	ZR 400	978	58.7	2072	400	5.4	-	72	71	7050	3700	2400	2120
	ZR 400 VSD	1114	66.9	2361	425	6.4	-	68-75	66-73	8350	4060	2470	2120
	ZR 425	1081	64.9	2291	450	6.2	-	73	71	7250	3700	2400	2120
	ZR 450	1166	70.0	2471	450	7.1	-	74	72	9500	4060	2400	2120
	ZR 500	1291	77.5	2735	500	7.7	-	74	72	9500	4060	2400	2120
	ZR 500 VSD	1318	79.1	2793	525	7.6	-	68-76	66-74	8350	4060	2470	2120
	ZR 630	1602	96.1	3394	630	9.3	-	76	74	10225	4060	2400	2120
	ZR 700 VSD	2063	123.8	4371	700	11.6	-	70-78	68-76	11850	4675	2470	2120
	ZR 750	1850	111.0	3920	750	10.7	-	76	74	10325	4060	2400	2120
	ZR 900 VSD	2456	147.4	5204	935	13.2	-	68-78	68-76	11850	4675	2470	2120
	50 Hz - 10 bar(e)												
FF (with IMD Dryer)	ZR 110	265	15.9	562	110	3.3	-28	70	68	3265	3440	2000	1650
	ZR 132	313	18.8	663	132	3.8	-29	70	68	3390	3440	2000	1650
	ZR 132 VSD	330	19.8	699	132	4.1	0,875	68-72	66-69	3500	3440	2000	1650
	ZR 145	334	20.0	708	145	4.1	-30	70	68	3530	3440	2000	1650
	ZR 160	402	24.1	852	160	4.3	-25	67	66	4705	4340	2000	1650
	ZR 160 VSD	392	23.5	831	160	4.4	0,875	68-74	66-71	3500	3440	2000	1650
	ZR 200	504	30.2	1068	200	4.9	-25	67	66	4905	4340	2000	1650
	ZR 250	629	37.7	1333	250	5.6	-28	67	66	5360	4340	2000	1650
	ZR 250 VSD	648	38.9	1373	250	5.8	-25/-30	67-73	65-71	6080	4340	2000	1650
	ZR 275	689	41.3	1460	275	6.0	-30	67	66	5560	4340	2000	1650
	ZR 315 VSD	746	44.8	1581	299	6.7	-25/-30	67-73	65-71	6080	4340	2000	1650
Pack (w/o IMD Dryer)	ZR 110	265	15.9	562	110	1.6	-	67	65	2380	2540	2000	1650
	ZR 132	313	18.8	663	132	1.8	-	67	65	2440	2540	2000	1650
	ZR 132 VSD	333	20.0	706	132	1.9	-	62-68	61-66	2590	2540	2000	1650
	ZR 145	334	20.0	708	145	1.9	-	67	66	2580	2540	2000	1650
	ZR 160	402	24.1	852	160	2.3	-	67	66	3795	3140	2000	1650
	ZR 160 VSD	394	23.6	835	160	2.1	-	62-70	61-66	2590	2540	2000	1650
	ZR 200	504	30.2	1068	200	2.9	-	67	66	3995	3140	2000	1650
	ZR 250	629	37.7	1333	250	3.6	-	67	66	3990	3140	2000	1650
	ZR 250 VSD	648	38.9	1373	250	3.7	-	64-70	65-68	4710	3140	2000	1650
	ZR 275	689	41.3	1460	275	4.0	-	67	66	4190	3140	2000	1650
	ZR 300	689	41.3	1460	315	4.2	-	71	70	6650	3700	2400	2120
	ZR 315	765	45.9	1621	315	4.5	-	72	70	6650	3700	2400	2120
	ZR 315 VSD	746	44.8	1581	299	4.3	-	63-73	62-71	4710	3140	2000	1650
	ZR 355	846	50.8	1793	355	4.9	-	73	71	6950	3700	2400	2120
	ZR 400	939	56.3	1990	400	5.4	-	73	71	7050	3700	2400	2120
	ZR 400 VSD	979	58.7	2074	425	5.7	-	69-76	66-73	8350	4060	2470	2120
	ZR 450	1047	62.8	2218	450	7.1	-	74	72	9500	4060	2400	2120
	ZR 500	1199	71.9	2541	500	7.9	-	74	72	9500	4060	2400	2120
	ZR 500 VSD	1150	69.0	2437	525	7.6	-	69-77	66-74	8350	4060	2470	2120
	ZR 630	1474	88.4	3123	630	9.3	-	76	74	10225	4060	2400	2120
	ZR 700 VSD	1859	111.5	3939	700	11.4	-	70-78	68-76	11850	4675	2470	2120
	ZR 750	1704	102.2	3611	750	10.5	-	76	74	10325	4060	2400	2120
	ZR 900 VSD	2057	123.4	4359	935	12.5	-	68-79	68-77	11850	4675	2470	2120
	50 Hz - 13 bar(e)												
FF (with IMD)	ZR 145	297	17.8	629	145	4.2	-30	75	72	3530	3440	2000	1650
	ZR 250	505	30.3	1070	250	5.4	-28	72	70	5360	4340	2000	1650
	ZR 275	550	33.0	1165	275	5.7	-30	72	70	5560	4340	2000	1650
Pack (w/o IMD)	ZR 145	297	17.8	629	145	2.0	-	75	72	2900	2540	2000	1650
	ZR 250	505	30.3	1070	250	3.4	-	72	70	3990	3140	2000	1650
	ZR 275	551	33.1	1168	275	3.7	-	72	70	4190	3140	2000	1650

ZR 110-750 and ZR 132-900 VSD compressors - 60 Hz

	ZR watercooled	Capacity FAD[1]			Installed motor power	Cooling wate cosump-tion[2]	Pressure dewpoint [3]	Noise level*[4]		Weight	Dimensions L x W x H		
	Type	l/s	m³/min	cfm	HP	l/s	°C	w/o duct dB(A)	with duct dB(A)	kg	A mm	B mm	C mm
	60 Hz - 7 bar(e)												
FF (with IMD Dryer)	ZR 110	352	21.1	746	150	3.9	-28	70	68	3265	3440	2000	1650
	ZR 160	463	27.8	981	200	4.4	-25	67	66	4695	4340	2000	1650
	ZR 200	574	34.4	1216	250	4.9	-25	67	66	5305	4340	2000	1650
	ZR 250	667	40.0	1413	300	5.4	-28	67	66	5515	4340	2000	1650
	ZR 275	752	45.1	1593	350	5.9	-30	67	66	5635	4340	2000	1650
Pack (w/o IMD Dryer)	ZR 110	352	21.1	746	150	1.9	-	67	65	2635	2540	2000	1650
	ZR 160	463	27.8	981	200	2.3	-	67	66	3785	3140	2000	1650
	ZR 200	574	34.4	1216	250	2.9	-	67	66	3935	3140	2000	1650
	ZR 250	667	40.0	1413	300	3.4	-	67	66	4145	3140	2000	1650
	ZR 275	752	45.1	1593	350	3.8	-	67	66	4265	3140	2000	1650
	60 Hz - 8.6 bar(e)												
FF (with IMD Dryer)	ZR 110	321	19.3	679	150	3.8	-28	70	68	3265	3440	2000	1650
	ZR 132 VSD	372	22.3	778	175	3.9	-28/-32	68-72	66-69	3500	3440	2000	1650
	ZR 145	398	23.9	843	200	4.1	-30	70	68	3530	3440	2000	1650
	ZR 160	419	25.1	888	200	4.4	-25	67	66	4695	4340	2000	1650
	ZR 160 VSD	431	25.9	913	215	4.2	-28/-32	68-74	66-71	3500	3440	2000	1650
	ZR 200	516	31.0	1093	250	4.6	-25	67	66	5305	4340	2000	1650
	ZR 250	619	37.1	1312	300	5.2	-28	67	66	5515	4340	2000	1650
	ZR 250 VSD	721	43.3	1528	335	5.8	-25/-30	63-73	62-71	6080	4340	2000	1650
	ZR 275	726	43.6	1538	350	5.8	-30	67	66	5635	4340	2000	1650
	ZR 315 VSD	836	50.2	1771	400	6.8	-25/-30	63-73	62-71	6080	4340	2000	1650
Pack (w/o IMD Dryer)	ZR 110	321	19.3	679	150	1.7	-	67	65	2635	2540	2000	1650
	ZR 132 VSD	376	22.6	797	175	1.9	-	62-68	61-66	2870	2540	2000	1650
	ZR 145	398	23.9	843	200	2.1	-	68	66	2900	2540	2000	1650
	ZR 160	419	25.1	888	200	2.1	-	67	66	3785	3140	2000	1650
	ZR 160 VSD	436	26.1	922	215	2.2	-	62-70	61-66	2870	2540	2000	1650
	ZR 200	516	31.0	1093	250	2.6	-	67	66	3935	3140	2000	1650
	ZR 250	619	37.1	1312	300	3.1	-	67	66	4145	3140	2000	1650
	ZR 250 VSD	721	43.3	1528	335	3.7	-	63-73	62-71	4710	3140	2000	1650
	ZR 275	726	43.6	1538	350	3.7	-	67	66	4265	3140	2000	1650
	ZR 300	755	45.3	1600	350	4.1	-	71	70	6550	3700	2400	2120
	ZR 315	850	51.0	1801	400	4.6	-	72	70	6550	3700	2400	2120
	ZR 315 VSD	836	50.2	1771	400	4.3	-	63-73	62-71	4710	3140	2000	1650
	ZR 355	955	57.3	2024	450	5.1	-	72	70	6950	3700	2400	2120
	ZR 400	1043	62.6	2210	500	5.6	-	72	71	7050	3700	2400	2120
	ZR 400 VSD	1114	66.9	2361	570	6.4	-	68-75	66-73	8320	4060	2470	2120
	ZR 450	1306	78.4	2767	600	7.8	-	74	72	9300	4060	2400	2120
	ZR 500	1538	92.3	3259	700	8.9	-	74	72	9500	4060	2400	2120
	ZR 500 VSD	1318	79.1	2793	703	7.6	-	68-76	66-74	8320	4060	2470	2120
	ZR 630	1700	102.0	3602	800	9.9	-	76	74	10225	4060	2400	2120
	ZR 700 VSD	2063	123.8	4371	938	11.6	-	70-78	68-76	11850	4675	2470	2120
	ZR 750	1939	116.3	4109	900	11.2	-	76	74	10225	4060	2400	2120
	ZR 900 VSD	2456	147.4	5204	1253	13.2	-	68-78	68-76	11850	4675	2470	2120

(1) *Reference conditions:*
- *dry air*
- *absolute inlet pressure 1 bar(a)*
- *cooling and air intake temperature 20 °C*
- *nominal working pressure*
- *performance of the compressor package measured according to ISO 1217, Third Edition, Annex C*

(2) *Cooling water temperature rise of 15 °C*

(3) *Max. capacity is at reference pressure and not at max. pressure*

(4) *Pressure dewpoint is specified for*
- *20 °C cooling air/water temperature*
- *relative humidity of 60 %*
- *nominal working pressure*
- *load level of minimum 50 %*

For VSD: at reference speed

(5) *± 3 dB(A) measured at a distance of 1 m and according to ISO 2151:2004 and using ISO 9614-2*

(6) *Maximum intake / cooling air temperature is 50 °C for*

HAT versions

Conversions
- *1 kg = 2.2 lbs*
- *1 mm = 0.039 inch*
- *°F = °C x 9/5 + 32*

ZR 110-750 and ZR 132-900 VSD compressors - 60 Hz

	ZR water-cooled	Capacity FAD[1]			Installed motor power	Cooling water consump-tion [2]	Pressure dewpoint [3]	Noise level*[4]		Weight	Dimensions L x W x H		
	Type	l/s	m³/min	cfm	HP	l/s	°C	w/o duct dB(A)	with duct dB(A)	kg	A mm	B mm	C mm
	60 Hz - 10.4 bar(e)												
FF (with IMD Dryer)	ZR 110	287	17.2	608	150	3.5	-28	70	68	3265	3440	2000	1650
	ZR 132 VSD	330	19.8	699	175	3.9	-28/-32	68-72	66-69	3500	3440	2000	1650
	ZR 145	336	20.2	712	200	4.1	-30	70	68	3530	3440	2000	1650
	ZR 160	375	22.5	795	200	4.4	-25	67	66	4695	4340	2000	1650
	ZR 160 VSD	392	23.5	831	215	4.2	-28/-32	68-74	66-71	3500	3440	2000	1650
	ZR 200	459	27.5	973	250	4.7	-25	67	66	4845	4340	2000	1650
	ZR 250	548	32.9	1161	300	5.2	-28	67	66	5515	4340	2000	1650
	ZR 250 VSD	648	38.9	1373	335	5.8	-25/-30	67-73	65-71	6080	4340	2000	1650
	ZR 275	641	38.5	1358	350	5.7	-30	67	66	5635	4340	2000	1650
	ZR 315 VSD	746	44.8	1581	400	6.7	-25/-30	67-73	65-71	6080	4340	2000	1650
Pack (w/o IMD Dryer)	ZR 110	287	17.2	608	150	1.7	-	67	65	2635	2540	2000	1650
	ZR 132 VSD	333	20.0	706	214	1.9	-	62-68	61-66	2590	2540	2000	1650
	ZR 145	336	20.2	712	200	2.0	-	67	66	2900	2540	2000	1650
	ZR 160	375	22.5	795	200	2.2	-	67	66	3785	3140	2000	1650
	ZR 160 VSD	394	23.6	835	215	2.1	-	62-70	61-66	2590	2540	2000	1650
	ZR 200	459	27.5	973	250	2.6	-	67	66	3935	3140	2000	1650
	ZR 250	548	32.9	1161	300	3.1	-	67	66	4145	3140	2000	1650
	ZR 250 VSD	648	38.9	1373	335	3.7	-	64-70	65-68	4710	3140	2000	1650
	ZR 275	641	38.5	1358	350	3.6	-	67	66	4265	3140	2000	1650
	ZR 300	677	40.6	1434	350	4.3	-	71	70	6550	3700	2400	2120
	ZR 315	762	45.7	1615	400	4.6	-	72	70	6550	3700	2400	2120
	ZR 315 VSD	746	44.8	1581	400	4.3	-	63-73	62-71	4710	3140	2000	1650
	ZR 355	858	51.5	1818	450	5.1	-	73	71	6950	3700	2400	2120
	ZR 400	945	56.7	2002	500	5.5	-	73	71	7050	3700	2400	2120
	ZR 400 VSD	979	58.7	2074	570	5.7	-	69-76	66-73	8350	4060	2470	2120
	ZR 450	1144	68.6	2424	600	7.7	-	74	xx	9300	4060	2400	2120
	ZR 500	1332	79.9	2822	700	8.7	-	75	xx	9500	4060	2400	2120
	ZR 500 VSD	1150	69.0	2437	703	7.6	-	69-77	66-74	8350	4060	2470	2120
	ZR 630	1474	88.4	3123	800	9.4	-	76	74	10225	4060	2400	2120
	ZR 700 VSD	1859	111.5	3939	938	11.4	-	70-78	68-76	11850	4675	2470	2120
	ZR 750	1739	104.3	3685	900	10.8	-	76	74	10225	4060	2400	2120
	ZR 900 VSD	2057	123.4	4359	1253	12.5	-	68-79	68-77	11850	4675	2470	2120
	60 Hz - 13 bar(e)												
FF (with IMD Dryer)	ZR 145	299	17.9	634	200	4.3	-28	75	72	3530	3440	2000	1650
	ZR 250	491	29.5	1040	300	5.4	-28	72	70	5515	4340	2000	1650
	ZR 275	550	33.0	1165	350	5.8	-30	72	70	5635	4340	2000	1650
Pack (w/o IMD Dryer)	ZR 145	299	17.9	634	200	2.0	-	75	72	2900	2540	2000	1650
	ZR 250	491	29.5	1040	300	3.4	-	72	70	4145	3140	2000	1650
	ZR 275	550	33.0	1165	350	3.8	-	72	70	4265	3140	2000	1650

[1] Reference conditions:
- *dry air*
- *absolute inlet pressure 1 bar(a)*
- *cooling and air intake temperature 20 °C*
- *nominal working pressure*
- *performance of the compressor package measured according to ISO 1217, Third Edition, Annex C*

[2] Cooling water temperature rise of 15 °C

[3] Max. capacity is at reference pressure and not at max. pressure

[4] Pressure dewpoint is specified for
- *20 °C cooling air/water temperature*
- *relative humidity of 60 %*
- *nominal working pressure*
- *load level of minimum 50 %*

For VSD: at reference speed

[5] ± 3 dB(A) measured at a distance of 1 m and according to ISO 2151:2004 and using ISO 9614-2

[6] Maximum intake / cooling air temperature is 50 °C for

HAT versions

Conversions
- *1 kg = 2.2 lbs*
- *1 mm = 0.039 inch*
- *°F = °C x 9/5 + 32*