جهان کمپرسور
Jahan Compressor

Technical data ZT/ZR 15-45 and ZT/ZR 37 and 50 VSD compressors

50 and 60 Hz

Compressor type	Max. working pressure		Capacity FAD[1] min-max			Installed Motor power		Noise level[2] dB(A)		Weight without dryer[3]	Integrated dryer available	
	bar(e)	psig	l/s	m³/min	cfm	kW	hp	Pack	Work-Place	kg	ID	IMD
Air cooled only												
ZT 15	7.5	109	37.7	2.3	80	15	20	69	65	804	YES	NO
	8.6	125	34.5	2.1	73							
	10	145	30.1	1.8	64							
ZT 18	7.5	109	48.7	2.9	103	18	25	71	67	824	YES	YES
	8.6	125	45.8	2.7	97							
	10	145	37.4	2.2	79							
ZT 22	7.5	109	59.1	3.5	125	22	30	73	69	830	YES	YES
	8.6	125	53.7	3.2	114							
	10	145	44.9	2.7	95							
Air- (ZT) and water- (ZR) cooled								Noise level for ZR[4]				
ZR/ZT 30	7.5	109	78.6	4.7	167	30	40	66	63	1239	YES	YES
	8.6	125	73.9	4.4	157							
ZR/ZT 37	7.5	109	96.6	5.8	205	37	50	68	65	1285	YES	YES
	8.6	125	92.3	5.5	196							
ZR/ZT 45	7.5	109	113.8	6.8	241	45	60	70	67	1330	YES	YES
	8.6	125	108.8	6.5	231							
ZR/ZT 37VSD	8.6	125	43-96.8	2.6-5.9	91-205	37	50	68	65	1430	YES	YES
ZR/ZT 50VSD	8.6	125	43-127.4	2.6-7.6	91-270	50	67	70	67			

(1) Unit performance measured according to ISO 1217, Ed 3, Annex C-1996
Reference conditions:
- absolute inlet pressure 1 bar (14.5 psi)
- intake air temperature 20°C (68°F)

At the following working pressures:
- 7 bar for working condition for max. pressure 7.5 bar
- 8 bar for working condition for max. pressure 8.6 bar

(2) Noise level measured according to Pneurop/Cagi PN8NTC2, tolerance: 3 dB(A).

(3) Integrated dryers will increase the weight

(4) For ZT air-cooled units : +3 dB(A)

Dimensions (mm)			
	Length	Width	Height
Z 15-22	1620	983	1600
Z 30-45	1910	983	1748
Z 37-50 VSD	2320	983	1748

Technical data

ZR/ZT55-90-FF compressor range

ZR/ZR-FF Watercooled oil-free compressors	Free air delivery (1)			Installed motor		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									
ZR55 - 7.5	143	8.6	303	55	75	0.9	1.3	-24	65
ZR55 - 8.6	131	7.9	278	55	75	0.9	1.3	-24	65
ZR55 - 10	121	7.3	257	55	75	0.9	1.3	-25	65
60 Hz units									
ZR55 - 7.25	155	9.3	329	55	75	1	1.4	-24	65
ZR55 - 9	138	8.3	293	55	75	1	1.4	-25	65
ZR55 - 10.4	128	7.7	271	55	75	1	1.4	-25	65
50 Hz units									
ZR75 - 7.5	194	11.6	411	75	100	1.2	1.8	-26	65
ZR75 - 8.6	184	11.0	390	75	100	1.2	1.8	-26	65
ZR75 - 10	174	10.4	369	75	100	1.2	1.8	-27	65
60 Hz units									
ZR75 - 7.25	213	12.8	452	75	100	1.3	1.9	-26	65
ZR75 - 9	194	11.6	411	75	100	1.3	1.9	-27	65
ZR75 - 10.4	185	11.1	392	75	100	1.3	1.9	-27	65
50 Hz units									
ZR90 - 7.5	234	14.0	496	90	120	1.4	2.1	-27	65
ZR90 - 8.6	220	13.2	466	90	120	1.4	2.1	-28	65
ZR90 - 10	209	12.5	443	90	120	1.4	2.1	-28	65
60 Hz units									
ZR90 - 7.25	262	15.7	555	90	120	1.6	2.3	-26	65
ZR90 - 9	235	14.1	498	90	120	1.6	2.3	-28	65
ZR90 - 10.4	224	13.4	475	90	120	1.6	2.3	-29	65

ZT/ZT-FF Aircooled oil-free compressors	Free air delivery (1)			Installed motor		Installed fan motor		Pressure dewpoint (4)	Sound pressure level (5)
						ZT	ZT-FF	ZT-FF	
Type	l/s	m³/min	cfm	kW	hp	kW	kW	°C	dB(A)
50 Hz									
ZT55 - 7.5	142	8.5	301	55	75	2	3.1	-28	72
ZT55 - 8.6	130	7.8	276	55	75	2	3.1	-28	72
ZT55 - 8.6 HAT (6)	120	7.2	254	55	75	2	-	-	72
ZT55 - 10	120	7.2	254	55	75	2	3.1	-28	72
60 Hz									
ZT55 - 7.25	154	9.2	326	55	75	2	3.6	-28	72
ZT55 - 8.6 HAT (6)	127	7.6	269	55	75	2	-	-	72
ZT55 - 9	137	8.2	290	55	75	2	3.6	-28	72
ZT55 - 10.4	127	7.6	269	55	75	2	3.6	-29	72
50 Hz									
ZT75 - 7.5	193	11.6	409	75	100	3.6	4.7	-30	72
ZT75 - 8.6	184	11.0	390	75	100	3.6	4.7	-30	72
ZT75 - 8.6 HAT (6)	174	10.4	369	75	100	3.6	-	-	72
ZT75 - 10	174	10.4	369	75	100	3.6	4.7	-31	72
60 Hz units									
ZT75 - 7.25	212	12.7	449	75	100	3.8	5.6	-30	72
ZT75 - 8.6 HAT (6)	184	11.1	390	75	100	3.8	-	-	72
ZT75 - 9	194	11.6	411	75	100	3.8	5.6	-31	72
ZT75 - 10.4	184	11.0	390	75	100	3.8	5.6	-31	72
50 Hz units									
ZT90 - 7.5	233	14.0	494	90	120	3.6	4.7	-31	72
ZT90 - 8.6	220	13.2	466	90	120	3.6	4.7	-32	72
ZT90 - 8.6 HAT (6)	208	12.5	441	90	120	3.6	-	-	72
ZT90 - 10	208	12.5	441	90	120	3.6	4.7	-32	72
60 Hz units									
ZT90 - 7.25	261	15.7	553	90	120	3.8	5.6	-32	72
ZT90 - 8.6 HAT (6)	222	13.3	470	90	120	3.8	-	-	72
ZT90 - 9	236	14.2	500	90	120	3.8	5.6	-32	72
ZT90 - 10.4	222	13.3	471	90	120	3.8	5.6	-33	72

Technical data

ZR/ZT75-90 VSD-FF compressors

ZR VSD / ZR VSD-FF Watercooled oil-free compressors	Free air delivery (1)			Cooling water consumption (2)		Pressure dewpoint (4)	Sound pressure level (5)
				ZR	ZR-FF	ZR-FF	
Type	l/s	m³/min	cfm	l/s	l/s	°C	dB(A)
ZR75 VSD-9 bar (e) 50/60 Hz				1.25	1.92	-30	65
Max (3)	220	13.2	466				
Min	75	4.5	159				
ZR75 VSD-10.4 bar (e) 50/60 Hz				1.25	1.92	-30	65
Max (3)	198	11.9	420				
Min	98	5.9	208				
ZR90 VSD-9 bar (e) 50/60 Hz				1.25	1.92	-30	65
Max (3)	258	15.5	547				
Min	75	4.5	159				
ZR90 VSD-10.4 bar (e) 50/60 Hz				1.25	1.92	-30	65
Max (3)	232	13.9	492				
Min	98	5.9	208				

ZT VSD / ZT VSD-FF Aircooled oil-free compressors	Free air delivery (1)				Pressure dewpoint (4)	Sound pressure level (5)
					ZT-FF	
Type	l/s	m³/min	cfm		°C	dB(A)
ZT75 VSD-9 bar (e) 50/60 Hz					-30	72
Max (3)	220	13.2	466			
Min	75	4.5	159			
ZT75 VSD-10.4 bar (e) 50/60 Hz					-30	72
Max (3)	198	11.9	420			
Min	98	5.9	208			
ZT90 VSD-9 bar (e) 50/60 Hz					-30	72
Max (3)	258	15.5	547			
Min	75	4.5	159			
ZT90 VSD-10.4 bar (e) 50/60 Hz					-30	72
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) according to Pneurop PN 8 NTC 2.2 test code 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

Dimensions & weight

Compressor pack units	Weight (approx.)	Dimensions A	B	C
Type	kg	mm	mm	mm
50/60 Hz				
ZR55	1580	2100	1376	1900
ZR75	1655	2100	1376	1900
ZR90	1720	2100	1376	1900
ZT55	1580	2100	1376	2150
ZT75	1655	2100	1376	2150
ZT90	1720	2100	1376	2150
ZR75 VSD	1940	2550	1376	1980
ZT75 VSD	1940	2550	1376	2150
ZR90 VSD	1940	2550	1376	1980
ZT90 VSD	1940	2550	1376	2150

Compressor Full Feature units	Weight (approx.)	Dimensions A	B	C
Type	kg	mm	mm	mm
50/60 Hz				
ZR55 FF	1830	2100	1376	1900
ZR75 FF	1905	2100	1376	1900
ZR90 FF	1970	2100	1376	1900
ZT55 FF	2180	2800	1376	2150
ZT75 FF	2255	2800	1376	2150
ZT90 FF	2320	2800	1376	2150
ZR75 VSD-FF	2190	2550	1376	1980
ZT75 VSD-FF	2540	3190	1376	2150
ZR90 VSD-FF	2190	2550	1376	1980
ZT90 VSD-FF	2540	3190	1376	2150

Technical data

ZR 110-425 and ZR 132-500 VSD compressors - **50 Hz**

	ZR watercooled	Free air delivery [1]			Installed motor	Cooling water consumption [2]	Pressure dewpoint [3]	Sound pressure level [4]		Weight	Dimensions		
	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	160	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	160	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
	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	364	21.8	771	132	3.9	-28/-32	68-72	66-69	3500	3440	2000	1650
	ZR 145	362	21.7	767	160	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	315	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	369	22.1	782	132	1.9	-	62-68	61-66	2870	2540	2000	1650
	ZR 145	362	21.7	767	160	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	434	26.0	920	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	315	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 500 VSD	1318	79.1	2793	525	7.6	-	68-76	66-74	8350	4060	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	-28/-32	68-72	66-69	3500	3440	2000	1650
	ZR 145	334	20.0	708	160	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	-28/-32	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	315	6.0	-30	67	66	5560	4340	2000	1650
	ZR 315 VSD	746	44.8	1581	315	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	160	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	315	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	315	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 500 VSD	1150	69.0	2437	525	7.6	-	69-77	66-74	8350	4060	2470	2120

Technical data

ZT 110-275 and ZT 132-315 VSD compressors - **50 Hz**

	ZT aircooled	Free air delivery (1)			Installed motor	Installed fan motor	Pressure dewpoint (3)	Sound pressure level (4)		Weight	Dimensions		
	Type	l/s	m³/min	cfm	kW	kW	°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)	ZT 110	312	18.7	661	110	4.8	-28	72	70	4095	4040	2000	1650
	ZT 132	360	21.6	763	132	4.8	-29	73	70	4220	4040	2000	1650
	ZT 145	386	23.2	818	160	4.8	-30	73	71	4360	4040	2000	1650
	ZT 160	457	27.4	968	160	8.8	-30	77	75	5625	5040	2100	1650
	ZT 200	557	33.4	1180	200	8.8	-25	77	75	6285	5040	2100	1650
	ZT 250	695	41.7	1473	250	8.8	-28	77	75	6280	5040	2100	1650
	ZT 275	729	43.7	1545	275	18.5	-30	77	75	6630	5040	2100	1650
Pack (w/o IMD Dryer)	ZT 110	314	18.8	665	110	4.8	-	71	70	3585	4040	2000	1650
	ZT 132	362	21.7	767	132	4.8	-	72	70	3710	4040	2000	1650
	ZT 145	388	23.3	822	160	4.8	-	72	70	3850	4040	2000	1650
	ZT 160	457	27.4	968	160	8.8	-	77	75	5185	5040	2100	1650
	ZT 200	557	33.4	1180	200	8.8	-	77	75	5385	5040	2100	1650
	ZT 250	695	41.7	1473	250	8.8	-	77	75	5380	5040	2100	1650
	ZT 275	729	43.7	1545	275	8.8	-	77	75	5580	5040	2100	1650
	50 Hz - 8.6 bar(e)												
FF (with IMD Dryer)	ZT 110	281	16.9	595	110	4.8	-28	72	70	4095	4040	2000	1650
	ZT 132	322	19.3	682	132	4.8	-29	73	70	4220	4040	2000	1650
	ZT 132 VSD	349	20.9	739	132	4.8	-25/-30	67-71	66-70	4330	4040	2000	1650
	ZT 145	357	21.4	756	160	4.8	-30	73	71	4360	4040	2000	1650
	ZT 160	422	25.3	894	160	8.8	-30	77	75	5625	5040	2100	1650
	ZT 160 VSD	404	24.2	856	160	4.8	-25/-30	67-74	66-71	4330	4040	2000	1650
	ZT 200	510	30.6	1081	200	8.8	-25	77	75	6285	5040	2100	1650
	ZT 250	661	39.7	1401	250	8.8	-28	77	75	6280	5040	2100	1650
	ZT 250 VSD	690	41.4	1462	250	18.5	-25/-30	70-77	68-75	6660	5040	2100	1650
	ZT 275	696	41.8	1475	275	18.5	-30	77	75	6630	5040	2100	1650
	ZT 315 VSD	778	46.7	1648	315	18.5	-25/-30	70-78	68-76	6660	5040	2100	1650
Pack (w/o IMD Dryer)	ZT 110	281	16.9	595	110	4.8	-	71	70	3585	4040	2000	1650
	ZT 132	322	19.3	682	132	4.8	-	72	70	3710	4040	2000	1650
	ZT 132 VSD	354	21.2	750	132	4.8	-	67-74	66-71	3820	4040	2000	1650
	ZT 145	357	21.4	756	160	4.8	-	72	70	3850	4040	2000	1650
	ZT 160	422	25.3	894	160	8.8	-	77	75	5185	5040	2100	1650
	ZT 160 VSD	410	24.6	869	160	4.8	-	67-74	66-71	3820	4040	2000	1650
	ZT 200	510	30.6	1081	200	8.8	-	77	75	5385	5040	2100	1650
	ZT 250	661	39.7	1401	250	8.8	-	77	75	5380	5040	2100	1650
	ZT 250 VSD	690	41.4	1462	250	8.8	-	70-77	68-75	6130	5040	2100	1650
	ZT 275	696	41.8	1475	275	8.8	-	77	75	5580	5040	2100	1650
	ZT 315 VSD	778	46.7	1648	315	8.8	-	70-78	68-76	6130	5040	2100	1650
	50 Hz - 10 bar(e)												
FF (with IMD Dryer)	ZT 110	260	15.6	551	110	4.8	-28	72	70	4095	4040	2000	1650
	ZT 132	307	18.4	650	132	4.8	-29	73	70	4220	4040	2000	1650
	ZT 132 VSD	316	19.0	670	132	4.8	-25/-30	67-71	66-70	4330	4040	2000	1650
	ZT 145	327	19.6	693	160	4.8	-30	73	70	4360	4040	2000	1650
	ZT 160	383	23.0	812	160	8.8	-30	78	76	5625	5040	2100	1650
	ZT 160 VSD	370	22.2	784	160	4.8	-25/-30	67-74	66-71	4330	4040	2000	1650
	ZT 200	485	29.1	1028	200	8.8	-30	78	76	5825	5040	2100	1650
	ZT 250	605	36.3	1282	250	8.8	-28	78	76	6280	5040	2100	1650
	ZT 250 VSD	610	36.6	1293	250	18.5	-25/-30	71-78	69-76	6660	5040	2100	1650
	ZT 275	667	40.0	1413	315	18.5	-30	78	76	6630	5040	2100	1650
	ZT 315 VSD	702	42.1	1487	315	18.5	-25/-30	71-79	69-77	6660	5040	2100	1650
Pack (w/o IMD Dryer)	ZT 110	261	15.7	553	110	4.8	-	71	70	3560	4040	2000	1650
	ZT 132	309	18.5	655	132	4.8	-	72	70	3700	4040	2000	1650
	ZT 132 VSD	320	19.2	678	132	4.8	-	67-71	66-70	4050	4040	2000	1650
	ZT 145	329	19.7	697	160	4.8	-	72	70	3850	4040	2000	1650
	ZT 160	383	23.0	812	160	8.8	-	78	76	5185	5040	2100	1650
	ZT 160 VSD	384	23.0	814	160	4.8	-	67-74	66-71	4050	4040	2000	1650
	ZT 200	485	29.1	1028	200	8.8	-	78	76	5385	5040	2100	1650
	ZT 250	605	36.3	1282	250	8.8	-	78	76	5380	5040	2100	1650
	ZT 250 VSD	610	36.6	1293	250	8.8	-	71-78	69-76	6130	5040	2100	1650
	ZT 275	667	40.0	1413	315	8.8	-	78	76	5580	5040	2100	1650
	ZT 315 VSD	702	42.1	1487	315	8.8	-	71-79	69-77	6130	5040	2100	1650

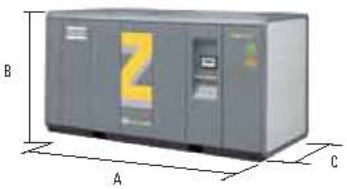
(1) Reference Conditions:
- Dry air
- Absolute inlet pressure 1 bar(a)
- Cooling and air intake temperature 20 °C
- Nominal working pressure:
  - 7 bar(e) for 7, 7.5 and 8.6 bar(e) variants
  - 9 bar(e) for 10 and 10.4 bar(e) variants
- Z VSD: 5 % derating for 380V nets
- Capacity of the compressor package measured according to ISO 1217, Third Edition, Annex C

(2) Cooling water temp. rise of 15 °C (10 °C for FF)

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

(4) ± 3 dB(A) according to ISO 2151:2004 and using ISO 9614-2

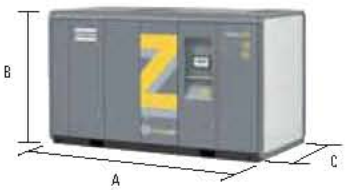
Conversions
- 1 kg – 2.2 lbs
- 1 mm – 0.039 inch
- °F – °C x 9/5 + 32



Technical data

ZR 110-400 and ZR 132-500 VSD compressors - **60 Hz**

	ZR watercooled	Free air delivery [1]			Installed motor	Cooling water consumption [2]	Pressure dewpoint [3]	Sound pressure level [4]		Weight	Dimensions		
	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)	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)	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	318	19.1	674	150	3.8	-28	70	68	3265	3440	2000	1650
	ZR 132 VSD	364	21.8	771	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	423	6.8	-25/-30	63-73	62-71	6080	4340	2000	1650
Pack (w/o IMD Dryer)	ZR 110	318	19.1	674	150	1.7	-	67	65	2635	2540	2000	1650
	ZR 132 VSD	369	22.1	782	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	434	26.0	920	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	423	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 500 VSD	1318	79.1	2793	703	7.6	-	68-76	66-74	8320	4060	2470	2120
	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	423	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	423	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 500 VSD	1150	69.0	2437	703	7.6	-	69-77	66-74	8350	4060	2470	2120



Technical data

ZT 110-275 and ZT 132-315 VSD compressors - **60 Hz**

	ZT aircooled	Free air delivery (1)			Installed motor	Installed fan motor	Pressure dewpoint (3)	Sound pressure level (4)		Weight	Dimensions		
	Type	l/s	m³/min	cfm	HP	HP	°C	w/o duct dB(A)	with duct dB(A)	kg	A mm	B mm	C mm
	60 Hz - 8.6 bar(e)												
FF (with IMD)	ZT 110	312	18.7	661	150	6.5	-28	72	70	4095	4040	2000	1650
	ZT 132 VSD	349	20.9	739	175	6.5	-25/-30	67-71	66-70	4330	4040	2000	1650
	ZT 145	391	23.5	828	200	6.5	-30	73	70	4360	4040	2000	1650
	ZT 160	410	24.6	869	200	12.3	-30	77	75	5615	5040	2100	1650
	ZT 160 VSD	404	24.2	856	215	6.5	-25/-30	67-74	66-71	4330	4040	2000	1650
	ZT 200	500	30.0	1059	250	12.3	-25	77	75	6225	5040	2100	1650
	ZT 250	596	35.8	1263	300	12.3	-28	77	75	6435	5040	2100	1650
	ZT 250 VSD	690	41.4	1462	335	24.8	-25/-30	70-77	68-75	6660	5040	2100	1650
	ZT 275	699	41.9	1481	350	24.8	-30	77	75	6705	5040	2100	1650
	ZT 315 VSD	778	46.7	1648	423	24.8	-25/-30	70-78	68-76	6660	5040	2100	1650
Pack (w/o IMD)	ZT 110	314	18.8	665	150	6.5	-	71	70	3585	4040	2000	1650
	ZT 132 VSD	354	21.2	750	175	6.5	-	67-74	66-71	3820	4040	2000	1650
	ZT 145	392	23.5	831	200	6.5	-	72	70	3850	4040	2000	1650
	ZT 160	410	24.6	869	200	12.3	-	77	75	5175	5040	2100	1650
	ZT 160 VSD	410	24.6	869	215	6.5	-	67-74	66-71	3820	4040	2000	1650
	ZT 200	500	30.0	1059	250	12.3	-	77	75	5325	5040	2100	1650
	ZT 250	596	35.8	1263	300	12.3	-	77	75	5535	5040	2100	1650
	ZT 250 VSD	690	41.4	1462	335	12.3	-	70-77	68-75	6130	5040	2100	1650
	ZT 275	699	41.9	1481	350	12.3	-	77	75	5655	5040	2100	1650
	ZT 315 VSD	778	46.7	1648	423	12.3	-	70-78	68-76	6130	5040	2100	1650
	60 Hz - 10.4 bar(e)												
FF (with IMD Dryer)	ZT 110	282	16.9	598	150	6.5	-28	72	70	4095	4040	2000	1650
	ZT 132 VSD	316	19.0	670	175	6.5	-25/-30	67-71	66-70	4330	4040	2000	1650
	ZT 145	329	19.7	697	200	6.5	-30	73	70	4360	4040	2000	1650
	ZT 160	359	21.5	761	200	12.3	-30	78	76	5615	5040	2100	1650
	ZT 160 VSD	370	22.2	784	215	6.5	-25/-30	67-74	66-71	4330	4040	2000	1650
	ZT 200	438	26.3	928	250	12.3	-30	78	76	5765	5040	2100	1650
	ZT 250	526	31.6	1115	300	12.3	-28	78	76	6435	5040	2100	1650
	ZT 250 VSD	610	36.6	1293	335	24.8	-25/-30	71-78	69-76	6660	5040	2100	1650
	ZT 275	616	37.0	1305	350	24.8	-30	78	76	6705	5040	2100	1650
	ZT 315 VSD	702	42.1	1487	423	24.8	-25/-30	71-79	69-77	6660	5040	2100	1650
Pack (w/o IMD Dryer)	ZT 110	283	17.0	600	150	6.5	-	71	70	3585	4040	2000	1650
	ZT 132 VSD	320	19.2	678	175	6.5	-	67-71	66-70	4050	4040	2000	1650
	ZT 145	331	19.9	701	200	6.5	-	72	70	3850	4040	2000	1650
	ZT 160	359	21.5	761	200	12.3	-	78	76	5175	5040	2100	1650
	ZT 160 VSD	384	23.0	814	215	6.5	-	67-74	66-71	4050	4040	2000	1650
	ZT 200	438	26.3	928	250	12.3	-	78	76	5325	5040	2100	1650
	ZT 250	526	31.6	1115	300	12.3	-	78	76	5535	5040	2100	1650
	ZT 250 VSD	610	36.6	1293	335	12.3	-	71-78	69-76	6130	5040	2100	1650
	ZT 275	616	37.0	1305	350	12.3	-	78	76	5655	5040	2100	1650
	ZT 315 VSD	702	42.1	1487	423	12.3	-	71-79	69-77	6130	5040	2100	1650

(1) Reference Conditions:
- Dry air
- Absolute inlet pressure 1 bar(a)
- Cooling and air intake temperature 20 °C
- Nominal working pressure:
  - 7 bar(e) for 7, 7.5 and 8.6 bar(e) variants
  - 9 bar(e) for 10 and 10.4 bar(e) variants
- Z VSD: 5 % derating for 380V nets
- Capacity of the compressor package measured according to ISO 1217, Third Edition, Annex C

(2) Cooling water temp. rise of 15 °C (10 °C for FF)

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

(4) ± 3 dB(A) according to ISO 2151:2004 and using ISO 9614-2

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

Technical data

ZR 300-750 and ZR 500/900 VSD compressors - 50 & 60 Hz

ZR watercooled	Free air delivery (1)			Installed motor		Cooling water consumption (2)	After-cooler approach temp.	Sound pressure level (3)	Weight with LV motor	Weight with MV motor	Dimensions A	Dimensions B	Dimensions C
Type	l/s	m³/min	cfm	kW	HP	l/s	°C	dB(A)	kg	kg	mm	mm	mm
50 Hz - 7.5 bar(e)													
ZR 300	775	46.5	1643	315		4.0	2	70	6200	6850	3700	2120	2400
ZR 315	855	51.3	1812	315		4.4	2	71	6200	6850	3700	2120	2400
ZR 355	949	56.9	2012	355		4.8	3	71	6600	6850	3700	2120	2400
ZR 400	1049	62.9	2224	400		5.4	3	71	6700	6850	3700	2120	2400
ZR 425	1162	69.7	2463	450		6.2	4	72	6900	7100	3700	2120	2400
ZR 450	1257	75.4	2664	450		7.2	2	73	-	9650	4060	2120	2400
ZR 500 VSD (4)	1318	79.0	2794	525		7.6	1-5	68-76	8320	-	4060	2120	2470
ZR 500	1387	83.2	2940	500		7.8	2	73	-	9750	4060	2120	2400
ZR 630	1726	103.6	3659	630		9.4	2	75	-	10400	4060	2120	2400
ZR 750	2075	124.5	4399	750		11.3	3	75	-	10500	4060	2120	2400
ZR 900 VSD (4)	2456	147.3	5206	935		13.2	1-5	68-78	11850	-	4675	2120	2470
50 Hz - 10 bar(e)													
ZR 300	689	41.3	1461	315		4.2	2	71	6200	6850	3700	2120	2400
ZR 315	765	45.9	1622	315		4.5	3	72	6200	6850	3700	2120	2400
ZR 355	846	50.7	1793	355		4.9	4	73	6600	6850	3700	2120	2400
ZR 400	939	56.3	1990	400		5.4	4	73	6700	6850	3700	2120	2400
ZR 450	1047	62.8	2220	450		7.1	1	74	-	9650	4060	2120	2400
ZR 500 VSD (4)	1150	69.0	2438	525		7.6	1-5	68-76	8320	-	4060	2120	2470
ZR 500	1196	71.8	2535	500		7.7	1	74	-	9750	4060	2120	2400
ZR 630	1474	88.4	3125	630		9.3	2	76	-	10400	4060	2120	2400
ZR 750	1704	102.2	3612	750		10.5	3	76	-	10500	4060	2120	2400
ZR 900 VSD (4)	2057	123.4	4360	935		12.5	1-5	68-79	11850	-	4675	2120	2470
60 Hz - 8.6 bar(e)													
ZR 300	755	45.3	1600		350	4.1	3	71	6200	6850	3700	2120	2400
ZR 315	850	51.0	1802		400	4.6	3	72	6200	6850	3700	2120	2400
ZR 355	955	57.3	2024		450	5.1	4	72	6600	6850	3700	2120	2400
ZR 400	1043	62.6	2211		500	5.6	4	72	6600	6850	3700	2120	2400
ZR 450	1308	78.5	2773		600	7.8	2	74	-	8200	4060	2120	2400
ZR 500 VSD (4)	1318	79.0	2794		703	7.6	1-5	68-76	8320	-	4060	2120	2470
ZR 500	1538	92.3	3260		700	8.9	2	74	-	8400	4060	2120	2400
ZR 630	1703	102.2	3610		800	9.9	3	76	-	9125	4060	2120	2400
ZR 750	1939	116.4	4111		900	11.2	4	76	-	9125	4060	2120	2400
ZR 900 VSD (4)	2456	147.3	5206		1253	13.2	1-5	68-78	11850	-	4675	2120	2470
60 Hz - 10.4 bar(e)													
ZR 300	677	40.6	1435		350	4.3	2	71	6200	6850	3700	2120	2400
ZR 315	762	45.7	1615		400	4.6	3	72	6200	6850	3700	2120	2400
ZR 355	858	51.5	1819		450	5.1	4	73	6600	6850	3700	2120	2400
ZR 400	945	56.7	2003		500	5.5	4	73	6600	6850	3700	2120	2400
ZR 450	1144	68.6	2425		600	7.7	2	74	-	8200	4060	2120	2400
ZR 500 VSD (4)	1150	69.0	2438		703	7.6	1-5	68-76	8320	-	4060	2120	2470
ZR 500	1332	79.9	2824		700	8.7	2	75	-	8400	4060	2120	2400
ZR 630	1474	88.4	3125		800	9.4	2	76	-	9125	4060	2120	2400
ZR 750	1739	104.3	3687		900	10.8	3	76	-	9125	4060	2120	2400
ZR 900 VSD (4)	2057	123.4	4360		1253	12.5	1-5	68-79	11850	-	4675	2120	2470

(1) Reference Conditions:
- Dry air
- Absolute inlet pressure 1 bar (a)
- Cooling and air intake temperature 20 °C
- Nominal working pressure
- Capacity of the compressor package measured according to ISO1217, Third Edition, Annex C

(2) Cooling water temp. rise of 15 °C

(3) ± 3 dB(A) according to Pneurop PN8NTC2.2 test code measured at a distance of 1 m

(4) ZR VSD: capacity at 7 bar(e)

(5) ZR VSD: capacity at 9 bar(e)

Conversions
- 1 kg = 2.2 lbs
- 1 mm = 0.039 inch
- °F = °C x 9/5 + 32
- 1 HP = 0.745 kW