

## ZR-2 SERIES

### Product Data

MODEL		ZR237L/H	ZR245L/H	ZR255L/H	ZR275L/H
Drive Arrangement		FLANGED	FLANGED	FLANGED	FLANGED
Compressor Speed		3560	3560	3560	3560
Maximum Working Pressure		105/128	105/128	105/128	105/128
Minimum Working Pressure		60	60	60	60
Maximum Pressure Ratio	r	11:1	11:1	11:1	11:1
No. of Compression Stages		2	2	2	2
<b>Capacity</b>					
@ 125 psig	ACFM	--/204	--/259	--/311	--/423
@ 115 psig	ACFM	--/205	--/261	--/313	--/425
@ 100 psig	ACFM	236/208	283/263	337/315	456/427
@ 80 psig	ACFM	239/211	286/266	340/318	459/430
<b>Shaft Input</b> (Note 1)					
@ 125 psig	Bhp	--/57	--/72	--/87	--/117
@ 115 psig	Bhp	--/55	--/69	--/84	--/113
@ 100 psig	Bhp	59/51	69/66	85/79	115/108
@ 80 psig	Bhp	54/47	64/61	78/73	106/100
<b>Shaft Input @ No Load</b>	Bhp	9/8	11/10	13/12	17/16
<b>Specific Power Consumption</b> (Note 1)					
@ 125 psig	Bhp/100 ACFM	--/28.0	--/27.8	--/28.0	--/27.7
@ 115 psig	Bhp/100 ACFM	--/26.8	--/26.4	--/26.8	--/26.6
@ 100 psig	Bhp/100 ACFM	25.0/24.5	24.7/25.0	25.2/25.0	25.2/25.3
@ 80 psig	Bhp/100 ACFM	22.6/22.3	22.4/23.0	22.0/23.0	23.1/23.3
<b>Recommended Drive Motor</b> — 1.25 Service Factor is std					
		50	60	75	100
<b>Temperature of HP Stage Discharge Air</b> (Note 1)					
@ 125 psig	degrees-F	340	340	340	360
@ 115 psig	degrees-F	320	320	320	340
@ 100 psig	degrees-F	295	295	295	315
@ 80 psig	degrees-F	255	255	255	272

Note 1 Standard Inlet Conditions: Pressure 14.5 psia  
 Temperature 68 degrees-F (air)  
 Temperature 68 degrees-F (water)  
 Relative Air Humidity 0%

Units are tested to a modified ASME PTC-9 and guaranteed to be within plus or minus 5% in capacity and plus or minus 5% in specific power

## ZR-2 SERIES

Product Data

MODEL		ZR237L/H	ZR245L/H	ZR255L/H	ZR275L/H
<b>Aftercooler Terminal Approach</b>					
@ 125 psig	deg -F	18	20	22	20
@ 100 psig	deg.-F	18	22	23	22
<b>Total Cooling Water Consumption with 30 deg.-F Water Temperature Rise</b>					
@ 125 psig	GPM	9	12	14	19
@ 100 psig	GPM	10	12	15	20
<b>Pressure Drop for Cooling Water at the Above Conditions</b>					
@ 125	psi	4.4	5.8	7.3	4.3
@ 100	psi	4.4	5.8	8.7	5.8
<b>Maximum Inlet Water Pressure</b>	psig	45	45	45	45
<b>Mean Sound Pressure Level</b>	(Note 2)				
@ 125 psig	dB(A)	73	75	76	77
<b>Rotor Speeds</b>	rpm	3266/2938	3737/3545	4397/4169	5618/5319
<b>Capacity of Oil Sump</b>	US gal	9	9	9	9
<b>Recommended Receiver</b>					
A. Capacity	ft3	32	32	32	53
B. Size	OD x H	30 x 84	30 x 84	30 x 84	36 x 96
<b>Dimensions</b>					
A. Air Inlet Grating	in	51.2 x 11.8	51.2 x 11.8	51.2 x 11.8	51.2 x 11.8
B. Discharge Air	in.	1.5	1.5	1.5	1.5
C. Condensate Drains (Manual)	in.	.5	.5	.5	.5
D. Length	in.	111.9	111.9	111.9	111.9
E. Width	in	55.6	55.6	55.6	55.6
F. Height	in	56.9	56.9	56.9	56.9
G. Cooling Water Inlet & Outlet	R	1.0	1.0	1.0	1.0
<b>Estimated Pack Weight</b>	lbs.	3500	3594	3880	4410

Note 2 Mean sound pressure level measured in free field conditions at a distance of 3 feet in accordance with CAGI-PNEUROP test code