MARCH-23

9820840232

ED. 01

Stationary booster: QB 10-25/ 363 Psi/60Hz

AML: Principal data

				QB10_360	QB15_360	QB20_360	QB25_360
				60	60	60	60
Reference conditions							
1 Medium					Air/Nitrogen		
2 Relative inlet pressure			psi	73	73	73	73
3 Relative humidity			%	0%	0%	0%	0%
4 Ambient Temperature			deg F	68	68	68	68
5 Effective working pressure			psi	363	363	363	363
6 Reference shaft speed			rpm	1100	1030	1460	1460
7 Oil type					Altair Ultra		
Limitations for operations							
1 Maximum effective working pressure			psi	363	363	363	363
2 Maximum effective inlet pressure			psi	73	73	73	73
3 Minimum effective inlet pressure			psi	29	29	29	29
4 Maximum allowable ambient temperature			deg F	113	113	113	113
5 Maximum allowable inlet temperature			deg F	113	113	113	113
6 Minimum ambient temperature			deg F	41	41	41	41
Applications outside stated limitations are subject to engineering approval							
Performance data booster (1)							
1 Free Air Delivery							
	psi	73-363 psi	cfm	60.4	74.8	105.5	136.0
		58-290 psi	cfm	50.9	62.9	88.8	114.4
		44-218 psi	cfm	41.3	51.1	72.0	93.0
2 Power data							
2.1 Performance data based on shaft input 2.1.1							
Shaft power input							
	psi	73-363 psi	hp	10.5	14.1	20.0	26.2
		58-290 psi	hp	8.7	12.2	17.5	22.1
		44-218 psi	hp	7.0	10.5	14.8	18.1
2.1.2 Specific shaft input Energy Requirement							
	psi	73-363 psi	kW/100cfm	12.9	14.0	14.1	14.4
		58-290 psi	kW/100cfm	12.8	14.5	14.6	14.4
		44-218 psi	kW/100cfm	12.5	15.2	15.4	14.5
2.2 Performance electrical							
2.2.1 Power input							
	psi	73-363 psi	kW	8.6	11.4	16.2	21.1
		58-290 psi	kW	7.2	10.0	14.1	17.8
		44-218 psi	kW	5.7	8.5	12.0	14.5
2.2.2 Specific Energy Requirement at maximum motor shaft speed							
	psi	73-363 psi	kW/100cfm	14.4	15.3	15.3	15.5
		58-290 psi	kW/100cfm	14.2	15.9	15.9	15.5
		44-218 psi	kW/100cfm	13.9	16.7	16.7	15.6
3 Booster oil consumption			g/h	0.8	0.8	0.8	0.8

4	Compressed air temperature					
	at outlet valve ST Version @reference condition	deg F	280	313	351	385
	Max outlet Temperature ST Version		280	313	351	385
	Max outlet valve FF Version	deg F		Ambient T +68°F		

Design data 1)

Booster						
1	Cylinder bore	in	2.5	2.5	2.5	2.5
2	Stroke	in	2.0	2.8	2.8	3.4
3	Air Displacement	cfm	6.4	8.3	11.7	14.2
	at effective intake pressure stated					
4	Oil capacity	gal	1.4	1.4	1.4	1.4
5	Dimension of booster inlet connection (threaded)	G	1"	1"	1"	1 1/2"
6	Dimension of booster outlet connection	G	1/2"	1/2"	1/2"	3/4"
Motor						
	Motor power	hp	10	15	20	25
Unit						
1	Outer dimensions ST					
	Length	in	63.0	63.0	N/A	N/A
	Width	in	31.1	31.1	N/A	N/A
	Height	in	41.3	41.3	N/A	N/A
2	Outer dimensions FF					
	Length	in	65.4	65.4	65.4	65.4
	Width	in	31.1	31.1	31.1	31.1
	Height	in	42.1	42.1	42.1	42.1
3	Packaged					
	Length	in	78.9	78.9	78.9	78.9
	Width	in	34.4	34.4	34.4	34.4
	Height	in	43.3	43.3	43.3	43.3
4	Net mass (approx.)					
	Packed ST	lb	728	816	N/A	N/A
	Unpacked ST	lb	683	772	N/A	N/A
	Packed FF	lb	849	937	1047	1113
	Unpacked FF	lb	805	893	1003	1069

1) Unless otherwise stated, at reference conditions

Codes are guaranteed; all other values are to be considered typical

2)	**Measurement**	**Code**	**Tolerance**
	Free Air Delivery	ISO 1217 Ed 4 2009	7%
	Specific Energy Requirement	ISO 1217 Ed 4 2009	8%
	Mean sound level	ISO 3744	2 dB

Stationary booster: QB 10-40/ 145 Psi/ 60Hz

AML: Principal data

			QB10_580	QB15_580	QB20_580	QB25_580	QB30_580	QB40_580
			60	60	60	60	60	60
Reference conditions								
1 Medium					Air / Nitrogen			
2 Relative inlet pressure		psi	145	145	145	145	145	145
3 Relative humidity		%	0%	0%	0%	0%	0%	0%
4 Ambient Temperature		deg F	68	68	68	68	68	68
5 Effective working pressure		psi	580	580	580	580	580	580
6 Reference shaft speed		rpm	743	960	960	1170	1170	1460
7 Oil type					Altair Ultra			
Limitations for operations								
1 Maximum effective working pressure		psi	580	580	580	580	580	580
2 Maximum effective inlet pressure		psi	145	145	145	145	145	145
3 Minimum effective inlet pressure		psi	87	87	87	87	87	87
4 Maximum allowable ambient temperature		deg F	113	113	113	113	113	113
5 Maximum allowable inlet temperature		deg F	113	113	113	113	113	113
6 Minimum ambient temperature		deg F	41	41	41	41	41	41
Applications outside stated limitations are subject to engineering approval								
Performance data booster (1)								
1 Free Air Delivery								
psi	145-580 psi	cfm	63.6	102.8	135.2	164.2	199.6	264.4
	116-435 psi	cfm	53.2	85.8	112.7	136.9	166.5	220.8
	87-290 psi	cfm	42.8	69.1	90.3	109.5	133.7	177.1
2 Power data								
2.1 Performance data based on shaft input 2.1.1								
Shaft power input								
psi	145-580 psi	hp	8.6	15.2	19.7	24.0	31.4	41.9
	116-435 psi	hp	6.7	11.8	16.2	19.7	25.0	33.3
	87-290 psi	hp	5.0	8.6	12.6	15.4	18.5	24.7
2.1.2 Specific shaft input Energy Requirement								
psi	145-580 psi	kW/100cfm	10	11	11	11	12	12
	116-435 psi	kW/100cfm	9	10	11	11	11	11
	87-290 psi	kW/100cfm	8	9	10	10	10	10
2.2 Performance electrical								
2.2.1 Power input								
psi	145-580 psi	kW	7.1	12.3	15.9	19.4	25.2	33.4
	116-435 psi	kW	5.5	9.7	13.1	15.9	20.0	26.6
	87-290 psi	kW	3.9	7.0	10.2	12.4	14.9	19.7
2.2.2 Specific Energy Requirement at maximum motor shaft speed								
psi	145-580 psi	kW/100cfm	11	12	12	12	13	13
	116-435 psi	kW/100cfm	10	11	12	12	12	12
	87-290 psi	kW/100cfm	9	10	11	11	11	11
3 Booster oil consumption		g/h	0.8	0.8	0.8	0.8	1.6	1.6
4 Compressed air temperature								
at outlet valve ST Version @reference condition		deg F	291	308	316	336	361	405
Max outlet Temperature ST Version			304	325	342	354	390	432
Max outlet valve FF Version		deg F			Ambient T +68°F			
Design data 1)								
Booster								
1 Cylinder bore		in	2.5	2.5	2.5	2.5	2.5	2.5
2 Stroke		in	2.0	2.0	2.8	2.8	3.4	3.4
3 Air Displacement		cfm	4.2	5.5	7.6	9.3	11.4	14.2

	at effective intake pressure stated							
4	Oil capacity	Gal	1.4	1.4	1.4	1.4	1.4	1.4
5	Dimension of booster inlet connection (threaded)	G	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"
6	Dimension of booster outlet connection	G	1/2"	1/2"	1/2"	3/4"	1"	1"
Motor								
	Motor power	hp	10	15	20	25	30	40
Unit								
1	Outer dimensions ST							
	Length	in	62.9	62.9	62.9	62.9	64.9	64.9
	Width	in	31.1	31.1	31.1	31.1	31.1	31.1
	Height	in	41.3	41.3	41.3	41.3	41.3	41.3
2	Outer dimensions FF							
	Length	in	65.3	65.3	67.3	67.3	69.3	69.3
	Width	in	31.1	31.1	31.1	31.1	32.7	32.7
	Height	in	42.1	42.1	42.1	42.1	42.1	42.1
3	Packaged							
	Length	in	78.9	78.9	78.9	78.9	78.9	78.9
	Width	in	34.4	34,4	34.4	34.4	34.4	34.4
	Height	in	43.3	43.3	43.3	43.3	43.3	43.3
4	Net mass (approx.)							
	Packed ST	lb	728	816	838	904	992	1102
	Unpacked ST	lb	684	772	794	860	948	1058
	Packed FF	lb	849	937	1047	1113	1202	1312
	Unpacked FF	lb	805	893	1003	1069	1157	1268

1) Unless otherwise stated, at reference conditions

Codes are guaranteed; all other values are to be considered typical

2)	**Measurement**	**Code**	**Tolerance**
	Free Air Delivery	ISO 1217 Ed 4 2009	7%
	Specific Energy Requirement	ISO 1217 Ed 4 2009	8%
	Mean sound level	ISO 3744	2 dB