

N. DIAGNOSTICS

N.2.5. VFD Codes (Cont.)

This VFD Section may not be applicable to all unit configurations. See **Appendix H** towards the end of this manual for Low Voltage Connections for VFDs.

N.2.5.2. Mitsubishi VFD Codes

Some units come equipped with a Mitsubishi FR-E800 Variable Frequency Drive attached to the blower assembly in the blower motor compartment.

When the drive detects a fault, an “E” with a Three Character Fault Code will be displayed on the LED display (Example: E.LUP). The drive may not stop the drive from running unless it is not corrected. The drive will store the last 10 fault codes, a condensed list of fault codes and operating codes can be found below.

More fault codes can be found on the manufacturer’s website. In the blower compartment, on the right side VFD assembly there is a label that gives the model number of the VFD. Use that model number to find the VFD Installation Manual on the manufacturer’s website.

Operation Panel Indication	Code	Name
E.OC1	16 (H10)	Overcurrent trip during acceleration
E.OC2	17 (H11)	Overcurrent trip during constant speed
E.OC3	18 (H12)	Overcurrent trip during deceleration or stop
E.OV1	32 (H20)	Regenerative overvoltage trip during acceleration
E.OV2	33 (H21)	Regenerative overvoltage trip during constant speed
E.OV3	34 (H22)	Regenerative overvoltage trip during deceleration or stop
E.THT	48 (H30)	Inverter overload trip (electronic thermal relay function)
E.THM	49 (H31)	Motor overload trip (electronic thermal relay function)
E.FIN	64 (H40)	Heat sink overheat
E.UVT	81 (H51)	Undervoltage
E.ILF	82 (H52)	Input phase loss
E.OLT	96 (H60)	Stall prevention stop
E.SOT	97 (H61)	Loss of synchronism detection
E.LUP	98 (H62)	Upper limit fault detection
E.LDN	99 (H63)	Lower limit fault detection
E.BE	112 (H70)	Brake transistor alarm detection
E.GF	128 (H80)	Output side earth (ground) fault overcurrent
E.LF	129 (H81)	Output phase loss
E.OHT	144 (H91)	External thermal relay operation
E.PTC	145 (H91)	PTC thermistor operation
E.OPT	160 (HA0)	Option Fault

N.2.5.3. Other Suppliers

Some units may be equipped with VFDs from other suppliers. In the blower compartment, on the right side of the VFD assembly, there is a label with the model number of the VFD. For more information about those VFDs, visit the appropriate website listed below

Delta MS300: https://downloadcenter.deltaww.com/en-US/DownloadCenter?v=1&CID=06&itemID=060101&downloadID=MS300&dataType=2&sort_expr=cdate&sort_dir=DESC.

Control Tech C200: <https://acim.nidec.com/en-us/drives/control-techniques/products/ac-drives/commander-c-general-purpose-drives>.

N.3. Common Mistakes

- These are a list of common mistakes made during installation.
- Drain Pan Connections, drain trap connected to the wrong outlet side, not connected at all, or insufficient trap depth.
- Connecting a W2 call only to try and get full heat all the time, Connect both W1 and W2 together if the job requirement or thermostat is setup for single stage heating.
- Connecting a Y2 call only to try and get full cooling all the time, Connect both Y1 and Y2 together if the job requirement or thermostat is setup for single stage cooling.
- Economizer connections, not installing the 3-wire jumper plug into the economizer wiring harness, if a factory option smoke detector is not used, this will cause a Smoke Detection Fault.

P. APPENDICES

Appendix A – General Product Data

Model (-)ACDYB Series	090	102	120	150
Cooling Performance^A				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER	11.2	11.2	11.2	11.0
IEER ^B	14.8	14.8	14.8	14.2
Nominal CFM/AHRI Rated CFM [L/s]	3000/3400 [1416/1605]	3400/3300 [1604/1557]	4000/4000 [1888/1888]	5000/4025 [2360/1899]
AHRI Net Cooling Capacity Btu [kW]	85,000 [24.9]	96,000 [28.13]	114,000 [33.4]	142,000 [41.61]
Net Sensible Capacity Btu [kW]	63,750 [18.68]	72,000 [21.10]	85,500 [25.06]	106,500 [31.21]
Net Latent Capacity Btu [kW]	21,250 [6.23]	24,000 [7.03]	28,500 [8.35]	35,500 [10.40]
Net System Power kW	7.73	8.73	10.36	13.15
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
Outdoor Sound Rating (dB)^C				
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	25.4 [2.36]	25.6 [2.38]	31.5 [2.93]	31.5 [2.93]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1.26 [32]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	11 [1.02]	10.9 [1.01]	13.8 [1.28]	13.8 [1.28]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8500 [4011]	9000 [4247]
No. Motors/HP	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
Motor RPM	820	820	1075	1100
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	2	2	2	2
No. Motors	1	1	1	1
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	184
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x25 [51x508x635]
Refrigerant Charge Oz. [g]	88 [2495]	114 [3232]	171 [4848]	168 [4763]
Weights				
Net Weight lbs. [kg]	767 [348]	803 [365]	897 [407]	987 [448]
Ship Weight lbs. [kg]	806 [366]	842 [382]	936 [425]	1026 [466]

Note: Please look at the rating plates pasted on the side of the unit to understand the model number of your unit.

Appendix A – General Product Data

Notes:

- A. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.
- B. EER and Integrated Energy Efficiency Ratio (IEER) are rated in accordance with AHRI Standard 340/360 and with DOE test procedures.
- C. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

WEIGHTED SOUND POWER LEVEL								
Model	Std. Rating (dBA)	Frequency (Hz)						
		100	250	500	1000	2000	4000	8000
(-)ACDYB090	82.8	88	75	75	72	68	68	64
(-)ACDYB102	80.7	62	67	71	70	67	63	58
(-)ACDYB120	88.2	78	73	76	78	75	72	63
(-)ACDYB150	86.8	85	73	78	77	73	69	63

P. APPENDICES

Appendix B – Electrical Data (Cont.)

See Appendix E for Electrical Data and Fuse Sizing specific to the Manufacturer's approved Electric Heater Kits.

ELECTRICAL DATA – (-)ACDYB SERIES							
		090ACF	090ACG 090ACH	090ADF	090ADG 090ADH	090AYF	090AYG 090AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	41/41	44/44	18	20	15	16
	Minimum Circuit Ampacity with Powered Exhaust	46/46	49/49	21	23	17	18
	Minimum Overcurrent Protection Device Size	50/50	50/50	25	25	20	20
	Minimum Overcurrent Protection Device Size with Powered Exhaust	60/60	60/60	25	25	20	20
	Maximum Overcurrent Protection Device Size	60/60	60/60	25	30	20	20
	Maximum Overcurrent Protection Device Size with Powered Exhaust	70/70	70/70	30	30	25	25
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Amps (RLA), Comp. 1	25.2	25.2	10.6	10.6	8.6	8.6
	Amps (LRA), Comp. 1	178.5	178.5	79.1	79.1	65.0	65.0
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	0.8	0.8	0.6	0.6
	Amps (LRA, each)	2.3	2.3	1.4	1.4	1.1	1.1
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	2	3	2	3	2	3
	Amps (FLA, each)	6.2	9.2	3.0	4.6	2.4	3.5
	Amps (LRA, each)	47.0	74.5	24.0	38.1	19.0	30.0

Appendix B – Electrical Data (Cont.)

See Appendix E for Electrical Data and Fuse Sizing specific to the Manufacturer's approved Electric Heater Kits.

ELECTRICAL DATA – (-)ACDYB SERIES							
		102ACF	102ACG 102ACH	102ADF	102ADG 102ADH	102AYF	102AYG 102AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	43/43	46/46	21	22	16	17
	Minimum Circuit Ampacity with Powered Exhaust	48/48	51/51	23	25	18	19
	Minimum Overcurrent Protection Device Size	50/50	60/60	25	25	20	20
	Minimum Overcurrent Protection Device Size with Powered Exhaust	60/60	60/60	30	30	20	25
	Maximum Overcurrent Protection Device Size	60/60	70/70	30	30	20	25
	Maximum Overcurrent Protection Device Size with Powered Exhaust	70/70	70/70	35	35	25	25
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Amps (RLA), Comp. 1	26.8	26.8	12.5	12.5	9.4	9.4
	Amps (LRA), Comp. 1	190.7	190.7	100.2	100.2	65.0	65.0
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	0.8	0.8	0.6	0.6
	Amps (LRA, each)	2.3	2.3	1.4	1.4	1.1	1.1
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	2	3	2	3	2	3
	Amps (FLA, each)	6.2	9.2	3.0	4.6	2.4	3.5
	Amps (LRA, each)	47.0	74.5	24.0	38.1	19.0	30.0

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Appendix B – Electrical Data (Cont.)

See Appendix E for Electrical Data and Fuse Sizing specific to the Manufacturer's approved Electric Heater Kits.

ELECTRICAL DATA – (-)ACDYB SERIES							
		120ACF	120ACG 120ACH	120ADF	120ADG 120ADH	120AYF	120AYG 120AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	45/45	48/48	24	25	19	20
	Minimum Circuit Ampacity with Powered Exhaust	50/50	53/53	26	28	21	22
	Minimum Overcurrent Protection Device Size	60/60	60/60	30	30	25	25
	Minimum Overcurrent Protection Device Size with Powered Exhaust	60/60	60/60	30	35	25	25
	Maximum Overcurrent Protection Device Size	70/70	70/70	35	35	30	30
	Maximum Overcurrent Protection Device Size with Powered Exhaust	70/70	70/70	35	40	30	30
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Amps (RLA), Comp. 1	26.5	26.5	14.0	14.0	11.5	11.5
	Amps (LRA), Comp. 1	255.0	255.0	123.0	123.0	93.7	93.7
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4	2.4	1.4	1.4	1.0	1.0
	Amps (LRA, each)	4.7	4.7	2.4	2.4	4.7	4.7
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	2	3	2	3	2	3
	Amps (FLA, each)	6.2	9.2	3.0	4.6	2.4	3.5
	Amps (LRA, each)	47.0	74.5	24.0	38.1	19.0	30.0

Appendix B – Electrical Data (Cont.)

See Appendix E for Electrical Data and Fuse Sizing specific to the Manufacturer's approved Electric Heater Kits.

ELECTRICAL DATA – (-)ACDYB SERIES							
		150ACF	150ACG	150ADF	150ADG	150AYF	150AYG
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	68/68	75/75	29	31	23	24
	Minimum Circuit Ampacity with Powered Exhaust	74/74	80/80	32	34	25	26
	Minimum Overcurrent Protection Device Size	80/80	90/90	35	35	25	30
	Minimum Overcurrent Protection Device Size with Powered Exhaust	80/80	90/90	35	40	30	30
	Maximum Overcurrent Protection Device Size	90/90	90/90	35	35	25	30
	Maximum Overcurrent Protection Device Size with Powered Exhaust	90/90	100/100	40	40	30	30
Compressor Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Amps (RLA), Comp. 1	22.4	22.4	8.8	8.8	7.2	7.2
	Amps (LRA), Comp. 1	166.2	166.2	74.6	74.6	54.0	54.0
	Amps (RLA), Comp. 2	22.4	22.4	8.8	8.8	7.2	7.2
	Amps (LRA), Comp. 2	166.2	166.2	74.6	74.6	54.0	54.0
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	3/4	3/4	3/4	3/4	3/4	3/4
	Amps (FLA, each)	4.2	4.2	2.3	2.3	1.2	1.2
	Amps (LRA, each)	11.5	11.5	5.9	5.9	4.2	4.2
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	3	5	3	5	3	5
	Amps (FLA, each)	9.2	15.7	4.6	6.3	3.5	5.1
	Amps (LRA, each)	74.5	95.0	38.1	47.5	30.0	38.0

Appendix C – Air Flow Performance Data

NOTE: F-Drive left of the first bold line, G-Drive between the bold lines, H-Drive right of both bold line.

Notes:

1. Factory sheave settings are shown in bold type.
2. Do not set sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI n
4. Add component resistance (below) to duct resistance to determine

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

NOTE: F-Drive left of the first bold line. G-Drive between the bold lines. H-Drive right of both bold line.

Notes:

1. Factory sheave settings are shown in bold type.
2. Do not set sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Add component resistance (below) to duct resistance to determine total External Static Pressure.

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

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Appendix C – Air Flow Performance Data (Cont.)

Air Flow	Model (-) JACDYB102 - Downflow Voltage 208/230, 460, 575 — 3 phase 60 Hz																							
	External Static Pressure - Inches of Water [Pa]																							
	0.1 [20]	0.2 [05]	0.3 [07]	0.4 [10]	0.5 [12]	0.6 [15]	0.7 [17]	0.8 [20]	0.9 [22]	1.0 [25]	1.1 [27]	1.2 [30]	1.3 [32]	1.4 [35]	1.5 [37]	1.6 [40]	1.7 [42]	1.8 [45]	1.9 [47]	2.0 [50]				
CFM [L/s]	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2700 [1274]	—	—	—	—	612	955	646	998	680	1044	713	1092	745	1143	777	1196	809	1251	840	1309	871	1369	901	1432
2800 [1321]	—	—	—	—	588	944	622	966	655	1031	688	1078	721	1128	753	1180	784	1234	815	1291	845	1350	875	1411
2900 [1368]	—	—	—	—	599	977	632	1021	665	1067	697	1116	729	1167	760	1220	791	1276	821	1334	851	1394	880	1457
3000 [1416]	—	—	—	—	610	1014	642	1060	674	1107	706	1157	737	1209	767	1264	798	1321	827	1380	856	1442	885	1506
3100 [1463]	—	—	—	—	588	1011	620	1055	652	1101	684	1150	715	1201	745	1255	775	1311	804	1369	833	1430	862	1493
3200 [1510]	—	—	—	—	600	1053	631	1098	663	1146	693	1196	724	1249	753	1304	783	1361	811	1421	840	1483	867	1547
3300 [1557]	—	580	1054	611	1099	642	1145	673	1195	703	1246	733	1300	762	1356	790	1415	818	1476	846	1539	873	1595	900
3400 [1604]	—	592	1102	623	1148	653	1196	683	1246	713	1299	742	1354	770	1412	798	1472	825	1534	852	1599	879	1666	905
3500 [1652]	—	605	1153	635	1200	665	1250	694	1301	723	1356	751	1412	779	1471	806	1532	833	1596	859	1662	885	1730	910
3600 [1699]	597	1161	617	1208	647	1266	676	1307	704	1360	732	1415	760	1473	797	1534	814	1595	840	1661	866	1729	891	1798
3700 [1746]	600	1218	630	1265	659	1315	687	1367	715	1422	742	1478	769	1538	796	1599	822	1653	847	1730	872	1798	897	1869
3800 [1793]	614	1278	642	1326	671	1378	698	1431	726	1487	752	1545	779	1606	805	1668	830	1734	855	1801	879	1871	903	1944
3900 [1840]	627	1341	655	1391	683	1443	710	1498	736	1555	763	1615	788	1677	813	1741	838	1808	862	1877	896	1948	909	2022
4000 [1888]	641	1407	668	1459	695	1512	721	1569	747	1627	773	1688	798	1751	822	1817	846	1885	870	1955	893	2028	915	2103
4100 [1935]	654	1477	681	1530	707	1585	733	1642	758	1702	783	1764	807	1829	831	1896	854	1965	877	2037	899	2111	921	2187

NOTE: F-Drive left of the first bold line, G-Drive between the bold lines, H-Drive right of the bold line.

Drive Package	F					G					H				
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2
Motor H.P. [W]	—	—	2 [1491.4]	—	—	—	3 [2237.1]	—	—	—	—	3 [2237.1]	—	—	—
Blower Sheave	—	—	AK79H	—	—	—	AK79H	—	—	—	—	AK79H	—	—	—
Motor Sheave	—	—	1VL40	—	—	—	1VP50	—	—	—	—	1VP56	—	—	—
Belt	—	—	A49	—	—	—	A50	—	—	—	—	A51	—	—	—
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2
RPM	816	771	726	678	632	580	1046	1003	959	917	872	826	1153	1114	1082
													1040	998	956

Notes:

- 1. Factory sheave settings are shown in bold type.
- 2. Do not set sheave below minimum or maximum turns open shown.
- 3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
- 4. Add component resistances (below) to duct resistance to determine GRI External Static Pressure.

Airflow	AIRFLOW CORRECTION FACTORS *				Wet Coil	COMPONENT AIRFLOW RESISTANCE						Pressure Drop MERV 8	Pressure Drop MERV 13
						Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)		Concentric Diffuser RXHN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)				
	CFM [L/s]	Total MBH	Sensible MBH	Power kW			Resistance — Inches of Water [kPa]						
2700 [1274]	0.97	0.93	0.99	0.99	0.07 [02]	0.03 [01]	0.80 [20]	0.65 [16]	0.108 [03]	0.070 [02]			
2800 [1321]	0.98	0.94	0.99	0.99	0.07 [02]	0.03 [01]	0.85 [21]	0.69 [17]	0.113 [03]	0.078 [02]			
2900 [1368]	0.98	0.96	0.99	0.99	0.08 [02]	0.04 [01]	0.91 [23]	0.74 [18]	0.117 [03]	0.085 [02]			
3000 [1416]	0.99	0.97	1.00	1.00	0.08 [02]	0.05 [01]	0.96 [24]	0.79 [20]	0.122 [03]	0.093 [02]			
3100 [1463]	0.99	0.99	1.00	1.00	0.09 [02]	0.06 [01]	1.02 [25]	0.86 [21]	0.127 [03]	0.100 [02]			
3200 [1510]	1.00	1.00	1.00	1.00	0.10 [02]	0.07 [02]	1.08 [27]	0.92 [23]	0.132 [03]	0.108 [03]			
3300 [1557]	1.01	1.01	1.00	1.00	0.10 [03]	0.08 [02]	1.15 [29]	0.99 [25]	0.137 [03]	0.115 [03]			
3400 [1604]	1.01	1.03	1.01	1.01	0.11 [03]	0.09 [02]	1.21 [30]	1.05 [26]	0.142 [03]	0.123 [03]			
3500 [1652]	1.02	1.04	1.01	1.01	0.11 [03]	0.10 [02]	1.29 [32]	1.09 [27]	0.147 [04]	0.131 [03]			
3600 [1699]	1.02	1.06	1.01	1.01	0.12 [03]	0.11 [03]	1.36 [34]	1.13 [28]	0.152 [04]	0.138 [03]			
3700 [1746]	1.03	1.07	1.02	1.02	0.13 [03]	0.12 [03]	1.43 [36]	1.18 [29]	0.157 [04]	0.146 [04]			
3800 [1793]	1.03	1.09	1.02	1.02	0.13 [03]	0.13 [03]	1.50 [37]	1.23 [31]	0.162 [04]	0.153 [04]			
3900 [1840]	1.04	1.10	1.02	1.02	0.14 [04]	0.15 [04]	1.59 [40]	1.31 [33]	0.167 [04]	0.161 [04]			
4000 [1888]	1.05	1.12	1.02	1.02	0.14 [04]	0.16 [04]	1.68 [42]	1.38 [34]	0.171 [04]	0.169 [04]			
4100 [1935]	1.05	1.13	1.03	1.03	0.15 [04]	0.17 [04]	1.74 [43]	1.44 [36]	0.176 [04]	0.176 [04]			

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

Appendix C – Air Flow Performance Data (Cont.)

Air Flow CFM [L/s]	Model (-)JACDYB102 - Sidelow Voltage 208/230, 460, 575 – 3 phase 60 Hz																							
	External Static Pressure - Inches of Water [Pa]																							
	0.1 [0.03]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.23]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]				
RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
2700 [1274]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2800 [1321]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2900 [1368]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3000 [1416]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3100 [1463]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3200 [1510]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3300 [1557]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3400 [1604]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3500 [1652]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3600 [1699]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3700 [1746]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3800 [1793]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3900 [1840]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4000 [1888]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4100 [1935]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: F-Drive left of the first bold line, G-Drive between the bold lines, H-Drive right of both bold line.

Drive Package	F					G					H							
Motor H.P. [W]	2 [1491.4]					3 [2237.1]					3 [2237.1]							
Blower Sheave	AK79H					AK79H					AK79H							
Motor Sheave	1VL40					1VP50					1VP56							
Belt	A49					A50					A51							
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
RPM	822	775	726	684	631	587	1046	1002	959	915	872	827	1149	1118	1083	1041	1000	956

- Notes:
1. Factory shave settings are shown in bold type.
 2. Do not set shave below minimum or maximum turns open shown.
 3. Re-adjustment of shave required to achieve rated airflow at AHR minimum External Static Pressure.
 4. Add component resistance below to duct resistance to determine total External Static Pressure.

Airflow	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE						Pressure Drop		Pressure Drop	
				Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)	Pressure Drop		Pressure Drop		Pressure Drop	
	CFM [L/s]	Total MBH	Sensible MBH					Resistance — Inches of Water [kPa]		MERV 8		MERV 13	
2700 [1274]	0.97	0.93	0.99	0.07 [0.02]	0.32 [0.08]	0.80 [0.20]	0.85 [0.21]	0.65 [0.16]	0.108 [0.03]	0.108 [0.03]	0.070 [0.02]	0.108 [0.03]	0.070 [0.02]
2800 [1321]	0.98	0.94	0.99	0.07 [0.02]	0.36 [0.09]	0.85 [0.21]	0.89 [0.22]	0.69 [0.17]	0.113 [0.03]	0.113 [0.03]	0.078 [0.02]	0.113 [0.03]	0.078 [0.02]
2900 [1368]	0.98	0.96	0.99	0.08 [0.02]	0.39 [0.10]	0.91 [0.23]	0.91 [0.23]	0.74 [0.18]	0.117 [0.03]	0.117 [0.03]	0.085 [0.02]	0.117 [0.03]	0.085 [0.02]
3000 [1416]	0.99	0.97	1.00	0.08 [0.02]	0.43 [0.11]	0.96 [0.24]	0.96 [0.24]	0.79 [0.20]	0.122 [0.03]	0.122 [0.03]	0.093 [0.02]	0.122 [0.03]	0.093 [0.02]
3100 [1463]	0.99	0.99	1.00	0.09 [0.02]	0.47 [0.12]	1.02 [0.25]	1.02 [0.25]	0.86 [0.21]	0.127 [0.03]	0.127 [0.03]	0.100 [0.02]	0.127 [0.03]	0.100 [0.02]
3200 [1510]	1.00	1.00	1.00	0.10 [0.02]	0.51 [0.13]	1.08 [0.27]	1.08 [0.27]	0.92 [0.23]	0.132 [0.03]	0.132 [0.03]	0.108 [0.03]	0.132 [0.03]	0.108 [0.03]
3300 [1557]	1.01	1.01	1.00	0.10 [0.03]	0.54 [0.14]	1.15 [0.29]	1.15 [0.29]	0.99 [0.25]	0.137 [0.03]	0.137 [0.03]	0.115 [0.03]	0.137 [0.03]	0.115 [0.03]
3400 [1604]	1.01	1.03	1.01	0.11 [0.03]	0.58 [0.14]	1.21 [0.30]	1.21 [0.30]	1.05 [0.26]	0.142 [0.03]	0.142 [0.03]	0.123 [0.03]	0.142 [0.03]	0.123 [0.03]
3500 [1652]	1.02	1.04	1.01	0.11 [0.03]	0.62 [0.15]	1.29 [0.32]	1.29 [0.32]	1.09 [0.27]	0.147 [0.04]	0.147 [0.04]	0.131 [0.03]	0.147 [0.04]	0.131 [0.03]
3600 [1699]	1.02	1.06	1.01	0.12 [0.03]	0.66 [0.16]	1.36 [0.34]	1.36 [0.34]	1.13 [0.28]	0.152 [0.04]	0.152 [0.04]	0.138 [0.03]	0.152 [0.04]	0.138 [0.03]
3700 [1746]	1.03	1.07	1.02	0.13 [0.03]	0.70 [0.17]	1.43 [0.36]	1.43 [0.36]	1.18 [0.29]	0.157 [0.04]	0.157 [0.04]	0.146 [0.04]	0.157 [0.04]	0.146 [0.04]
3800 [1793]	1.03	1.09	1.02	0.13 [0.03]	0.74 [0.18]	1.50 [0.37]	1.50 [0.37]	1.23 [0.31]	0.162 [0.04]	0.162 [0.04]	0.153 [0.04]	0.162 [0.04]	0.153 [0.04]
3900 [1840]	1.04	1.10	1.02	0.14 [0.04]	0.77 [0.19]	1.59 [0.40]	1.59 [0.40]	1.28 [0.32]	0.167 [0.04]	0.167 [0.04]	0.161 [0.04]	0.167 [0.04]	0.161 [0.04]
4000 [1888]	1.05	1.12	1.02	0.14 [0.04]	0.81 [0.20]	1.68 [0.42]	1.68 [0.42]	1.38 [0.34]	0.171 [0.04]	0.171 [0.04]	0.169 [0.04]	0.171 [0.04]	0.169 [0.04]
4100 [1935]	1.05	1.13	1.03	0.15 [0.04]	0.85 [0.21]	1.74 [0.43]	1.74 [0.43]	1.44 [0.36]	0.176 [0.04]	0.176 [0.04]	0.176 [0.04]	0.176 [0.04]	0.176 [0.04]

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

Appendix C – Air Flow Performance Data (Cont.)

NOTE: F-Drive left of the first bold line, G-Drive between the bold lines, H-Drive right of both bold line.

Notes:

1. Factory sheave settings are shown in bold type.
2. Do not set sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRJ minimum External Static Pressure.
4. Add component resistance (below) to duct resistance to determine total External Static Pressure.

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

Appendix C – Air Flow Performance Data (Cont.)

Model (-) JACDYB120 – Sidelow		Voltage 208/230, 460, 575 – 3 phase 60 Hz																																							
Air Flow		External Static Pressure - Inches of Water [Pa]																																							
CFM [L/s]		0.1 [0.02]		0.2 [0.05]		0.3 [0.07]		0.4 [0.10]		0.5 [12]		0.6 [15]		0.7 [17]		0.8 [20]		0.9 [22]		1.0 [25]		1.1 [27]		1.2 [30]		1.3 [32]		1.4 [35]		1.5 [37]		1.6 [40]		1.7 [42]		1.8 [45]		1.9 [47]		2.0 [50]	
RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3200 [1510]	539	711	568	774	597	838	625	934	681	1043	709	1115	736	1189	763	1265	790	1331	796	1402	842	1504	868	1587	883	1673	918	1760	943	1845	968	1941	992	2034	1016	2129	1051	2204	1080	2288	
3300 [1557]	549	761	578	826	606	892	634	960	692	1031	689	1103	717	1177	743	1253	770	1331	796	1402	842	1504	868	1576	873	1661	908	1748	928	1838	947	1929	972	2022	995	2117	1019	2214	1042	2313	
3400 [1604]	560	815	588	644	1020	671	932	689	1168	725	1242	751	1320	777	1400	803	1482	829	1565	854	1651	879	1738	864	1828	928	1919	962	2012	976	2107	998	2204	1022	2033	1042	2103	1051	2204		
3500 [1652]	571	873	598	941	626	1011	653	1084	680	1158	707	1234	732	1312	759	1392	786	1473	810	1557	836	1643	860	1730	865	1819	909	1911	933	2004	967	2099	980	2196	1003	2205	1026	2296	1046	2499	
3600 [1699]	582	934	609	1004	636	1076	663	1151	690	1227	716	1305	742	1385	767	1466	793	1550	818	1636	842	1723	867	1813	891	1904	915	1997	938	2083	982	2160	984	2289	1007	2380	1029	2482	1051	2597	
3700 [1746]	593	998	620	1071	647	1145	673	1221	699	1295	725	1379	751	1461	776	1545	801	1631	825	1718	850	1808	874	1899	897	1982	921	2068	944	2165	967	2284	989	2385	1011	2488	1033	2592	1051	2699	
3800 [1793]	604	1067	631	1141	657	1218	683	1296	709	1376	734	1458	760	1541	784	1627	808	1715	833	1804	857	1896	881	1989	904	2064	927	2182	950	2281	972	2382	994	2485	1016	2599	1037	2696	1058	2805	
3900 [1840]	616	1139	642	1216	668	1294	694	1374	719	1456	744	1540	769	1625	793	1713	817	1803	841	1894	865	1988	888	2083	911	2180	933	2279	955	2380	977	2483	988	2585	1020	2695	1041	2804	1062	2914	
4000 [1888]	628	1215	654	1293	679	1373	704	1455	725	1539	754	1625	778	1713	802	1803	826	1894	849	1948	872	2079	940	2381	962	2484	983	2586	1004	2695	1026	2804	1046	2815	1068	1081	1163	1066	3027		
4100 [1935]	640	1295	665	1375	690	1457	715	1541	740	1627	764	1714	788	1804	811	1896	835	1989	858	2085	880	2182	903	2281	923	2389	946	2468	968	2590	989	2697	1010	2806	1030	3029	1051	3029	1070	3114	
4200 [1982]	652	1378	677	1460	702	1544	726	1630	750	1718	774	1807	798	1899	821	1993	844	2088	866	2186	888	2285	910	2386	932	2487	953	2584	974	2701	995	2810	1015	2921	1036	3033	1055	3148	1075	3243	
4300 [2029]	665	1465	689	1549	713	1635	737	1723	761	1812	784	1904	807	1998	830	2093	853	2191	875	2290	897	2391	918	2494	939	2599	960	2708	981	2815	1001	2926	1021	3039	1041	3153	1060	3270	1080	3388	
4400 [2076]	677	1553	701	1641	725	1729	749	1819	772	1911	795	2004	818	2100	840	2197	862	2297	884	2398	905	2501	926	2606	947	2713	986	2882	988	2983	1008	3046	1027	3161	1047	3277	1068	3396	1084	3515	
4500 [2123]	689	1649	714	1737	737	1827	760	1919	783	2013	806	2108	828	2206	850	2305	872	2407	895	2510	914	2615	935	2722	955	2833	985	2942	995	3055	1014	3170	3034	3266	1053	3404	1071	3525	1089	3647	
4600 [2171]	703	1747	727	1837	750	1929	772	2023	795	2118	817	2216	839	2315	860	2417	881	2520	902	2625	923	2732	943	2841	963	2982	983	3085	1022	3180	1021	3297	1040	3415	1059	3536	1077	3668	—	—	
4700 [2218]	716	1849	738	1940	762	2034	784	2130	806	2228	828	2327	849	2429	871	2532	891	2637	912	2744	932	2853	952	2964	971	3076	991	3192	1010	3309	1028	3427	1047	3548	1065	3671	1083	3795	—	—	
4800 [2265]	730	1954	752	2048	775	2143	796	2241	818	2341	839	2442	860	2545	881	2651	901	2758	922	2867	941	2978	961	3080	991	3202	1013	3323	1034	3452	1053	3562	1074	3682	1091	3809	1098	3935	—	—	

NOTE: F-Drive left of the first bold line, G-Drive between the bold lines, H-Drive right of both bold lines.

Drive Package	F										G										H										
	2 [1491.4]										3 [2237.1]										3 [2237.1]										
Motor H.P. [W]	AK79H										AK79H										AK79H										
Blower Sheave	1VL40										1VP50										1VP56										
Motor Sheave	A49										A50										A51										
Belt																															
Turns Open	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
RPM	798	757	716	676	633	590	547	504	461	418	375	332	289	246	203	160	117	74	31	0	0	0	0	0	0	0	0	0	0	0	0

- Notes:
- Factory shaver settings are shown in bold type.
 - Do not set shaver below minimum or maximum turns open shown.
 - Re-adjustment of shaver required to achieve rated airflow at AHR minimum External Static Pressure.
 - Add component resistance (below) to duct resistance to determine total External Static Pressure.

Airflow	AIRFLOW CORRECTION FACTORS *				COMPONENT AIRFLOW RESISTANCE							Pressure Drop MERV 8	Pressure Drop MERV 13
	CFM [L/s]	Total MBH	Sensible MBH	Power kW	Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)	Resistance — Inches of Water [kPa]				
	3200 [1510]	0.97	0.93	0.99	0.10 [0.02]	0.51 [0.13]	0.74 [0.18]	0.56 [0.14]	0.132 [0.03]	0.108 [0.03]			
	3300 [1557]	0.98	0.94	0.99	0.10 [0.03]	0.54 [0.14]	0.79 [0.20]	0.59 [0.15]	0.137 [0.03]	0.115 [0.03]			
	3400 [1604]	0.98	0.96	0.99	0.11 [0.03]	0.58 [0.14]	0.84 [0.21]	0.62 [0.15]	0.142 [0.03]	0.123 [0.03]			
	3500 [1652]	0.99	0.97	1.00	0.11 [0.03]	0.62 [0.15]	0.90 [0.22]	0.66 [0.16]	0.147 [0.04]	0.131 [0.03]			
	3600 [1699]	0.99	0.98	1.00	0.12 [0.03]	0.66 [0.16]	0.95 [0.24]	0.69 [0.17]	0.152 [0.04]	0.138 [0.03]			
	3700 [1746]	1.00	0.99	1.00	0.13 [0.03]	0.70 [0.17]	1.00 [0.25]	0.73 [0.18]	0.157 [0.04]	0.146 [0.04]			
	3800 [1793]	1.00	1.01	1.00	0.13 [0.03]	0.74 [0.18]	1.04 [0.26]	0.76 [0.19]	0.162 [0.04]	0.153 [0.04]			
	3900 [1840]	1.01	1.02	1.00	0.14 [0.04]	0.77 [0.19]	1.09 [0.27]	0.80 [0.20]	0.167 [0.04]	0.161 [0.04]			
	4000 [1888]	1.01	1.03	1.01	0.15 [0.04]	0.81 [0.20]	1.13 [0.28]	0.84 [0.21]	0.171 [0.04]	0.169 [0.04]			
	4100 [1935]	1.02	1.04	1.01	0.15 [0.04]	0.85 [0.21]	1.19 [0.30]	0.88 [0.22]	0.176 [0.04]	0.176 [0.04]			
	4200 [1982]	1.02	1.06	1.01	0.16 [0.04]	0.89 [0.22]	1.24 [0.31]	0.92 [0.23]	0.181 [0.04]	0.184 [0.05]			
	4300 [2029]	1.03	1.07	1.01	0.17 [0.04]	0.93 [0.23]	1.31 [0.33]	0.97 [0.24]	0.186 [0.05]	0.191 [0.05]			
	4400 [2076]	1.03	1.08	1.01	0.18 [0.04]	0.97 [0.24]	1.37 [0.34]	1.02 [0.25]	0.191 [0.05]	0.199 [0.05]			
	4500 [2123]	1.04	1.09	1.02	0.19 [0.05]	1.01 [0.25]	1.43 [0.35]	1.07 [0.27]	0.196 [0.05]	0.207 [0.05]			
	4600 [2171]	1.04	1.11	1.02	0.19 [0.05]	1.06 [0.26]	1.48 [0.37]	1.11 [0.28]	0.201 [0.05]	0.214 [0.05]			
	4700 [2218]	1.05	1.12	1.02	0.20 [0.05]	1.10 [0.27]	1.54 [0.38]	1.15 [0.29]	0.206 [0.05]	0.222 [0.05]			
	4800 [2265]	1.05	1.13	1.02	0.21 [0.05]	1.14 [0.28]	1.59 [0.40]	1.19 [0.30]	0.211 [0.05]	0.229 [0.06]			

P. APPENDICES

Appendix C – Air Flow Performance Data (Cont.)

Model (-) JACDYB150 - Downflow		Voltage 208/230, 460, 575 — 3 phase 60 Hz																					
Air Flow		External Static Pressure - Inches of Water [Pa]																					
CFM [L/s]		0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]		
RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
4000 [1898]	—	—	—	—	—	771	167	795	1721	818	1785	841	1849	883	1914	881	1979	908	2045	930	2110	952	2177
4100 [1935]	—	—	—	—	—	784	1731	807	1797	829	1863	852	1929	874	1966	897	2063	916	2131	940	2199	962	2267
4200 [1982]	—	—	—	—	—	773	1742	796	1810	819	1878	841	1946	884	2014	886	2083	907	2153	929	2222	950	2292
4300 [2029]	—	—	764	1755	786	1824	809	1883	831	1963	853	2033	875	2104	887	2176	917	2247	939	2291	961	2361	
4400 [2076]	—	—	777	1839	800	1910	822	1982	844	2054	866	2126	887	2199	909	2272	930	2346	951	2420	971	2494	
4500 [2123]	769	1855	791	1928	811	2002	835	2075	856	2148	878	2224	899	2298	920	2374	941	2450	962	2538	982	2613	
4600 [2171]	793	1947	805	2022	826	2098	848	2174	869	2250	890	2327	911	2402	932	2487	953	2579	974	2667	994	2754	
4700 [2218]	797	2044	818	2122	840	2198	861	2277	882	2355	903	2434	923	2513	944	2593	964	2673	984	2763	1003	2854	
4800 [2265]	811	2146	832	2226	854	2305	874	2385	895	2466	916	2547	936	2628	956	2710	976	2792	995	2874	1014	2957	
4900 [2312]	826	2253	847	2335	867	2418	888	2499	908	2581	928	2664	948	2748	968	2831	987	2916	1007	3000	1026	3085	
5000 [2359]	840	2365	861	2448	881	2532	901	2617	921	2701	941	2787	961	2870	980	2958	999	3044	1018	3131	1037	3218	
5100 [2407]	855	2482	875	2567	895	2653	915	2747	935	2827	954	2914	973	3002	992	3090	1011	3178	1030	3267	1048	3356	
5200 [2454]	870	2603	880	2691	909	2778	929	2868	948	2957	967	3046	986	3136	1005	3228	1023	3317	1042	3408	1060	3499	
5300 [2501]	885	2730	904	2820	924	2910	943	3001	962	3092	981	3183	999	3275	1017	3368	1036	3460	1053	3553	1071	3647	
5400 [2548]	900	2861	919	2953	938	3046	957	3139	976	3232	994	3325	1012	3419	1030	3514	1048	3609	1066	3704	1083	3800	
5500 [2595]	915	2998	934	3092	953	3187	971	3282	989	3377	1007	3473	1025	3569	1043	3665	1060	3762	1078	3860	1095	3957	
5600 [2643]	930	3139	949	3236	967	3332	985	3429	1003	3527	1021	3625	1039	3723	1056	3822	1072	3921	1090	4020	1107	4120	
5700 [2690]	946	3286	964	3384	982	3483	1000	3582	1017	3682	1035	3782	1052	3882	1069	3983	1086	4084	1102	4185	1119	4287	
5800 [2737]	961	3437	979	3537	997	3638	1014	3740	1032	3841	1049	3943	1066	4046	1082	4140	1099	4252	1115	4356	1131	4460	
5900 [2784]	977	3583	994	3696	1012	3799	1028	3902	1046	4006	1063	4110	1079	4215	1096	4320	1112	425	1143	4637	1159	4744	
6000 [2831]	993	3754	1010	3859	1027	3964	1044	4070	1060	4176	1077	4282	1093	4389	1109	4496	1125	4604	1140	4711	1156	4820	

NOTE: F-Drive left of the bold line, G-Drive right of the bold line.

Drive Package	F										G										
Motor H.P. [W]	3 [118.5]										5 [2237.1]										
Blower Sheave	AK71H										AK79H										
Motor Sheave	1VL44										1VP60										
Belt	A48										A52										
Turns Open	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RPM	998	953	906	860	813	765	717	670	623	576	529	482	435	388	341	294	247	199	152	105	58

- Notes:
1. Factory shave settings are shown in bold type.
 2. Do not set shave below minimum or maximum turns open shown.
 3. Add component resistance (below) to duct resistance to determine total External Static Pressure.
 4. Add component resistance (below) to duct resistance to determine total External Static Pressure.

Airflow	AIRFLOW CORRECTION FACTORS *				COMPONENT AIRFLOW RESISTANCE						Pressure Drop MERV 9	Pressure Drop MERV 13	
					Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF3818 & Concentric Adapter RXMC-DD03 (Push)		Concentric Diffuser RXRN-AED0618 & Concentric Adapter RXMC-DD03 (Drop)					
	Total MBH	Sensible MBH	Power kW	Wet Coil		Resistance – Inches of Water [Pa]	Resistance – Inches of Water [Pa]	Resistance – Inches of Water [Pa]					
CFM [L/s]													
4000 [1868]	1.01	1.03	1.01	0.15 [0.04]	0.16 [0.04]	0.16 [0.04]	0.76 [1.19]	0.68 [1.17]	0.32 [0.03]	0.32 [0.03]	0.132 [0.03]	0.108 [0.03]	
4100 [1935]	1.02	1.04	1.01	0.16 [0.04]	0.17 [0.04]	0.17 [0.04]	0.79 [1.20]	0.72 [1.18]	0.36 [0.03]	0.36 [0.03]	0.136 [0.03]	0.114 [0.03]	
4200 [1982]	1.02	1.06	1.01	0.17 [0.04]	0.18 [0.05]	0.18 [0.05]	0.82 [1.20]	0.75 [1.19]	0.40 [0.03]	0.40 [0.03]	0.140 [0.03]	0.120 [0.03]	
4300 [2029]	1.03	1.07	1.01	0.17 [0.04]	0.20 [0.05]	0.20 [0.05]	0.86 [1.21]	0.79 [1.20]	0.44 [0.03]	0.44 [0.03]	0.144 [0.03]	0.126 [0.03]	
4400 [2076]	1.03	1.08	1.01	0.18 [0.05]	0.21 [0.05]	0.21 [0.05]	0.90 [1.22]	0.83 [1.21]	0.48 [0.04]	0.48 [0.04]	0.148 [0.04]	0.132 [0.03]	
4500 [2123]	1.04	1.09	1.02	0.19 [0.05]	0.23 [0.06]	0.23 [0.06]	0.94 [1.23]	0.86 [1.21]	0.52 [0.04]	0.52 [0.04]	0.152 [0.04]	0.138 [0.03]	
4600 [2171]	1.04	1.11	1.02	0.20 [0.05]	0.24 [0.06]	0.24 [0.06]	0.98 [1.24]	0.88 [1.22]	0.56 [0.04]	0.56 [0.04]	0.156 [0.04]	0.145 [0.04]	
4700 [2218]	1.05	1.12	1.02	0.21 [0.05]	0.26 [0.06]	0.26 [0.06]	1.02 [1.25]	0.94 [1.23]	0.60 [0.04]	0.60 [0.04]	0.160 [0.04]	0.151 [0.04]	
4800 [2265]	1.05	1.13	1.02	0.21 [0.05]	0.28 [0.07]	0.28 [0.07]	1.06 [1.26]	0.98 [1.24]	0.64 [0.04]	0.64 [0.04]	0.164 [0.04]	0.157 [0.04]	
4900 [2312]	1.06	1.14	1.02	0.22 [0.06]	0.29 [0.07]	0.29 [0.07]	1.10 [1.27]	1.01 [1.25]	0.68 [0.04]	0.68 [0.04]	0.168 [0.04]	0.163 [0.04]	
5000 [2359]	1.06	1.16	1.03	0.23 [0.06]	0.31 [0.08]	0.31 [0.08]	1.14 [1.28]	1.04 [1.26]	0.72 [0.04]	0.72 [0.04]	0.172 [0.04]	0.169 [0.04]	
5100 [2407]	1.07	1.17	1.03	0.24 [0.06]	0.33 [0.08]	0.33 [0.08]	1.18 [1.29]	1.07 [1.27]	0.76 [0.04]	0.76 [0.04]	0.176 [0.04]	0.175 [0.04]	
5200 [2454]	1.07	1.18	1.03	0.25 [0.06]	0.35 [0.09]	0.35 [0.09]	1.22 [1.30]	1.10 [1.27]	0.80 [0.04]	0.80 [0.04]	0.180 [0.04]	0.182 [0.04]	
5300 [2501]	1.08	1.19	1.03	0.26 [0.06]	0.36 [0.09]	0.36 [0.09]	1.27 [1.32]	1.15 [1.28]	0.84 [0.05]	0.84 [0.05]	0.184 [0.05]	0.188 [0.05]	
5400 [2548]	1.08	1.21	1.03	0.27 [0.07]	0.38 [0.09]	0.38 [0.09]	1.33 [1.33]	1.20 [1.30]	0.88 [0.05]	0.88 [0.05]	0.188 [0.05]	0.194 [0.05]	
5500 [2595]	1.09	1.22	1.04	0.28 [0.07]	0.40 [0.10]	0.40 [0.10]	1.37 [1.34]	1.25 [1.31]	0.92 [0.05]	0.92 [0.05]	0.192 [0.05]	0.200 [0.05]	
5600 [2643]	1.09	1.23	1.04	0.29 [0.07]	0.42 [0.10]	0.42 [0.10]	1.42 [1.35]	1.30 [1.32]	0.96 [0.05]	0.96 [0.05]	0.196 [0.05]	0.206 [0.05]	
5700 [2690]	1.10	1.24	1.04	0.30 [0.07]	0.44 [0.11]	0.44 [0.11]	1.47 [1.37]	1.34 [1.33]	0.200 [0.05]	0.200 [0.05]	0.200 [0.05]	0.212 [0.05]	
5800 [2737]	1.10	1.26	1.04	0.31 [0.08]	0.46 [0.11]	0.46 [0.11]	1.52 [1.38]	1.38 [1.34]	0.204 [0.05]	0.204 [0.05]	0.204 [0.05]	0.219 [0.05]	
5900 [2794]	1.10	1.27	1.05	0.32 [0.08]	0.48 [0.12]	0.48 [0.12]	1.56 [1.39]	1.42 [1.35]	0.208 [0.05]	0.208 [0.05]	0.208 [0.05]	0.225 [0.05]	
6000 [2831]	1.11	1.28	1.05	0.33 [0.08]	0.51 [0.13]	0.51 [0.13]	1.60 [1.40]	1.45 [1.36]	0.212 [0.05]	0.212 [0.05]	0.212 [0.05]	0.231 [0.06]	

Appendix C – Air Flow Performance Data (Cont.)

Model (-)JACDYB150 - Sidedflow		Voltage 208/230, 460, 575 — 3 phase 60 Hz																External Static Pressure - Inches of Water [kPa]																								
Air Flow																																										
CFM [L/s]	RPM																																									
		0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																					
BHP	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM																				
4000 [188]	—	—	—	—	764	1599	788	1665	812	1732	836	1801	860	1871	883	1942	905	2317	1016	2386	1037	2475	1058	2558	1079	2640	1100	2724	1120	2809												
4100 [193]	—	—	—	—	778	1693	802	1761	820	1831	849	1901	872	1973	895	2047	918	2321	1040	2397	1062	2474	984	2432	1026	2513	1047	2595	1068	2678	1088	2763	1109	2849	1128	2936						
4200 [198]	—	—	—	—	798	1720	1789	816	1860	839	1931	1962	2004	885	2078	907	2153	929	2230	951	2308	973	2387	994	2468	1016	2549	1036	2632	1057	2716	1077	2802	1097	2888	1117	2976	1137	3065			
4300 [203]	—	—	—	—	793	1817	806	1888	829	1951	852	2034	875	2109	897	2186	919	2263	941	2342	963	2422	984	2503	1005	2585	1026	2669	1046	2754	1067	2840	1087	2928	1108	3016	1128	3108	1145	3198		
4400 [207]	—	—	—	—	773	1845	797	1910	820	1990	843	2065	865	2140	888	2217	910	2295	931	2375	955	2452	978	2538	1001	2616	1026	2701	1056	2878	1076	2967	1096	3006	1115	3147	1134	3238	1153	3332		
4500 [212]	764	1872	788	1945	811	2019	834	2094	856	2171	878	2249	900	2328	922	2408	945	2492	965	2572	985	2657	1006	2742	1028	2828	1046	2916	1066	3005	1086	3096	1105	3187	1124	3280	1143	3374	1161	3471		
4600 [217]	779	1973	802	2048	825	2124	847	2201	869	2280	891	2360	913	2441	934	2523	955	2607	976	2682	997	2778	1017	2865	1037	2954	1057	3044	1076	3135	1095	3228	1114	3321	1133	3416	1151	3512	1170	3610		
4700 [221]	794	2076	816	2153	839	2232	861	2311	883	2392	904	2474	925	2557	946	2641	967	2727	988	2814	1008	2882	1028	2991	1047	3082	1067	3174	1086	3267	1104	3362	1123	3458	1142	3555	1160	3653	1178	3752		
4800 [226]	809	2182	831	2261	853	2342	874	2423	896	2506	917	2590	938	2675	959	2762	979	2849	999	2938	1019	3029	1039	3121	1058	3213	1077	3307	1096	3402	1114	3499	1133	3597	1151	3696	1168	3796	1186	3898		
4900 [230]	823	2291	845	2372	867	2454	888	2538	909	2623	930	2709	950	2796	971	2885	991	2974	1011	3066	1030	3158	1049	3252	1068	3346	1087	3442	1105	3540	1124	3639	1142	3738	1159	3839	1177	3942	1194	4045		
5000 [234]	838	2402	859	2485	880	2570	901	2655	922	2742	943	2830	963	2920	983	3010	1003	3102	1022	3135	1041	3290	1060	3362	1079	3462	1087	3581	1115	3680	1133	3781	1150	3885	1168	3986	1185	4090	1202	4196		
5100 [240]	852	2516	873	2601	894	2688	915	2775	935	2864	955	2954	975	3043	1014	3233	1033	3265	1042	3324	1071	3382	1092	3482	1107	3571	1127	3721	1125	3823	1142	3925	1159	4029	1176	4135	1183	4241	1209	4349		
5200 [245]	866	2633	887	2720	908	2808	928	2898	948	2989	968	3081	988	3175	1007	3270	1026	3366	1045	3463	1063	3561	1081	3661	1099	3762	1117	3895	1134	3968	1151	4073	1169	4179	1195	4286	1201	4396	—	—		
5300 [250]	881	2750	901	2841	922	2931	942	3023	961	3116	981	3211	1002	3306	1019	3403	1037	3501	1056	3600	1074	3701	1092	3803	1109	3906	1127	4040	1144	4160	1160	4275	1177	4331	1193	4440	1209	4551	—	—		
5400 [254]	895	2873	915	2965	935	3057	955	3151	974	3246	993	3343	1012	3439	1034	3539	1067	3741	1085	3843	1104	3942	1126	4046	1146	4159	1161	4276	1186	4376	1186	4486	1202	4587	—	—	—	—				
5500 [259]	909	2998	929	3091	949	3188	968	3282	987	3377	1006	3477	1024	3577	1042	3678	1060	3780	1084	3905	1113	4054	1130	4202	1146	4310	1162	4420	1179	4531	1194	4643	1210	4757	—	—	—	—				
5600 [264]	924	3124	943	3220	962	3317	981	3415	1000	3515	1018	3614	1038	3716	1054	3819	1072	3924	1089	4029	1106	4136	1123	4242	1140	4353	1156	4464	1172	4576	1188	4689	1203	4803	—	—	—	—				
5700 [269]	938	3254	957	3351	976	3450	994	3550	1013	3652	1031	3754	1048	3858	1066	3963	1083	4070	1100	4177	1117	4286	1133	4396	1149	4508	1165	4620	1181	4734	1196	4846	1212	4966	—	—	—	—				
5800 [273]	956	3381	970	3480	999	3587	1017	3689	1035	3792	1054	3897	1069	4003	1078	4110	1094	4218	1111	4328	1127	4439	1144	4551	1159	4664	1175	4779	1190	4895	1205	5012	—	—	—	—	—					
5900 [279]	966	3521	984	3622	1002	3725	1020	3830	1038	3935	1055	4042	1072	4150	1089	4259	1106	4369	1122	4481	1138	4594	1154	4706	1169	4824	1184	4941	1199	5069	1214	5178	—	—	—	—	—					
6000 [283]	980	3658	998	3762	1016	3867	1033	3973	1050	4081	1067	4189	1084	4300	1101	4411	1117	4523	1133	4637	1148	4752	1164	4869	1179	4986	1194	5105	1208	5223	—	—	—	—	—	—	—					
NOTE: F=Drive left of the first bold line, G=Drive right of the bold line.																																										
Drive Package		F										G																														
Motor H.P. [W]		3 [1118.5]										5 [2237.1]																														
Blower Sheave		AK71H										AK79H																														
Motor Sheave		VL44										1VP60																														
Belt		A48										A52																														
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
RPM	994	952	905	858	811	765	1209	1168	1126	1082	1037	993	950	907	864	821	778	735	692	649	606	563	520	477	434	391	348	305	262	219	176	133	89	46	3	—	—	—	—	—	—	—

NOTE: F-Drive left of the first bold line, G-Drive right of the bold line.

Drive Package		F										G									
Motor H.P. [W]		3 [1118.5]										5 [2237.1]									
Blower Sheave		AK7H										AK79H									
Motor Sheave		1VL44										1VP60									
Belt		A-48										A-52									
Turns Open		0	1	2	3	4	5	0	1	2	3	4	5								
RPM		994	952	905	858	811	765	1209	1168	1126	1082	1037	993								

- Notes:
1. Factory sheave settings are shown in bold type.
 2. Do not set sheave below minimum or maximum turns open shown.
 3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
 4. Add component resistance (below) to duct resistance to determine total External Static Pressure

Airflow	AIRFLOW CORRECTION FACTORS *				COMPONENT AIRFLOW RESISTANCE								
	CFM [L/s]	Ton MBH	Sensible MBH	Power kW	Wet Coil	Horizontal Economizer RA Damper Open		Concentric Diffuser RXNR-AE3618 & Concentric Adapter RMC-D03 (Push)		Concentric Diffuser RXNR-AED3618 & Concentric Adapter RMC-D03 (Drop)		Pressure Drop MERV 8	Pressure Drop MERV 13
						Resistance — Inches of Water [Pa]							
4000 [1868]	1.01	1.03		1.01	0.15 [04]	0.73 [18]	0.76 [19]		0.68 [17]		0.132 [03]		0.108 [03]
4100 [1865]	1.02	1.04		1.01	0.16 [04]	0.76 [19]	0.79 [20]		0.72 [18]		0.136 [03]		0.114 [03]
4200 [1862]	1.02	1.06		1.01	0.17 [04]	0.83 [21]	0.82 [20]		0.75 [19]		0.140 [03]		0.120 [03]
4300 [2029]	1.03	1.07		1.01	0.17 [04]	0.88 [22]	0.86 [21]		0.79 [20]		0.144 [03]		0.126 [03]
4400 [2076]	1.03	1.08		1.01	0.18 [05]	0.93 [23]	0.90 [22]		0.81 [21]		0.148 [04]		0.132 [03]
4500 [2123]	1.04	1.09		1.02	0.19 [05]	0.98 [24]	0.94 [23]		0.86 [21]		0.152 [04]		0.138 [03]
4600 [2171]	1.04	1.11		1.02	0.20 [05]	1.03 [26]	0.98 [24]		0.88 [22]		0.156 [04]		0.145 [04]
4700 [2218]	1.05	1.12		1.02	0.21 [05]	1.07 [27]	1.02 [25]		0.94 [23]		0.160 [04]		0.151 [04]
4800 [2265]	1.05	1.13		1.02	0.21 [05]	1.12 [28]	1.06 [26]		0.98 [24]		0.164 [04]		0.157 [04]
4900 [2312]	1.06	1.14		1.02	0.22 [06]	1.17 [29]	1.10 [27]		1.01 [25]		0.168 [04]		0.163 [04]
5000 [2359]	1.06	1.16		1.03	0.23 [06]	1.21 [30]	1.14 [28]		1.04 [26]		0.172 [04]		0.169 [04]
5100 [2407]	1.07	1.17		1.03	0.24 [06]	1.26 [31]	1.18 [29]		1.07 [27]		0.176 [04]		0.175 [04]
5200 [2454]	1.07	1.18		1.03	0.25 [06]	1.30 [32]	1.22 [30]		1.10 [27]		0.180 [04]		0.182 [04]
5300 [2501]	1.08	1.19		1.03	0.26 [06]	1.35 [34]	1.27 [32]		1.15 [29]		0.184 [05]		0.188 [05]
5400 [2548]	1.08	1.21		1.03	0.27 [07]	1.39 [35]	1.33 [33]		1.20 [30]		0.188 [05]		0.194 [05]
5500 [2595]	1.09	1.22		1.04	0.28 [07]	1.44 [36]	1.37 [34]		1.25 [31]		0.192 [05]		0.200 [05]
5600 [2643]	1.09	1.23		1.04	0.29 [07]	1.48 [37]	1.42 [35]		1.30 [32]		0.196 [05]		0.206 [05]
5700 [2690]	1.10	1.24		1.04	0.30 [07]	1.52 [38]	1.47 [37]		1.34 [33]		0.200 [05]		0.212 [05]
5800 [2737]	1.10	1.26		1.04	0.31 [08]	1.57 [39]	1.52 [38]		1.38 [34]		0.204 [05]		0.219 [05]
5900 [2784]	1.10	1.27		1.05	0.32 [08]	1.61 [40]	1.56 [39]		1.42 [35]		0.208 [05]		0.225 [05]
6000 [2831]	1.11	1.28		1.05	0.33 [08]	1.66 [41]	1.60 [40]		1.46 [36]		0.212 [05]		0.231 [06]

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Appendix D – Cooling Data for (-)ACDYB 7.5 Ton

COOLING PERFORMANCE DATA - (-)ACDYB090										
Entering Indoor Air @ 80°F [26.7°C] dbE										
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]		3550 [1675]	3400 [1605]	2375 [1121]	3550 [1675]	3400 [1605]	2375 [1121]	3550 [1675]	3400 [1605]	2375 [1121]
DR		.05	.09	.12	.05	.09	.12	.05	.09	.12
Outdoor Dry Bulb Temperature	75°F [23.9°C]	Total BTUH [kW] Sens BTUH [kW] Power	105 [30.8] 60 [17.6] 6.4	104.1 [30.5] 58.8 [17.2] 6.4	98.4 [28.8] 50.5 [14.8] 6.2	99.4 [29.1] 70.9 [20.8] 6.4	98.6 [28.9] 69.4 [20.3] 6.4	93.2 [27.3] 59.7 [17.5] 6.2	93.8 [27.5] 81.7 [23.9] 6.4	93 [27.3] 80.1 [23.5] 6.3
	80°F [26.7°C]	Total BTUH [kW] Sens BTUH [kW] Power	102.5 [30] 59 [17.3] 6.7	101.7 [29.8] 57.8 [16.9] 6.7	96.1 [28.2] 49.7 [14.6] 6.5	96.9 [28.4] 69.9 [20.5] 6.7	96.1 [28.2] 68.5 [20.1] 6.6	90.9 [26.6] 58.8 [17.2] 6.5	91.3 [26.8] 80.7 [23.7] 6.6	90.6 [26.6] 79.1 [23.2] 6.6
	85°F [29.4°C]	Total BTUH [kW] Sens BTUH [kW] Power	100 [29.3] 58 [17] 7.0	99.2 [29.1] 56.8 [16.6] 7.0	93.8 [27.5] 48.8 [14.3] 6.8	94.4 [27.7] 68.9 [20.2] 7.0	93.7 [27.5] 67.5 [19.8] 6.9	88.6 [26] 58 [17] 6.7	88.8 [26] 79.8 [23.4] 6.9	88.1 [25.8] 78.1 [22.9] 6.9
	90°F [32.2°C]	Total BTUH [kW] Sens BTUH [kW] Power	97.6 [28.6] 57 [16.7] 7.3	96.8 [28.4] 55.9 [16.4] 7.3	91.5 [26.8] 48 [14.1] 7.1	92 [27] 67.9 [19.9] 7.3	91.3 [26.8] 66.5 [19.5] 7.2	86.2 [25.3] 57.2 [16.8] 7.1	86.4 [25.3] 78.8 [23.1] 7.2	85.7 [25.1] 77.2 [22.6] 7.2
	95°F [35.0°C]	Total BTUH [kW] Sens BTUH [kW] Power	95.1 [27.9] 56 [16.4] 7.6	94.4 [27.7] 54.9 [16.1] 7.6	89.2 [26.1] 47.2 [13.8] 7.4	89.5 [26.2] 66.9 [19.6] 7.6	88.8 [26] 65.6 [19.2] 7.6	83.9 [24.6] 56.3 [16.5] 7.4	83.9 [24.6] 77.8 [22.8] 7.6	83.3 [24.4] 76.2 [22.3] 7.5
	100°F [37.8°C]	Total BTUH [kW] Sens BTUH [kW] Power	92.7 [27.2] 55.1 [16.1] 8.0	91.9 [26.9] 54 [15.8] 8.0	86.9 [25.5] 46.4 [13.6] 7.8	87.1 [25.5] 65.9 [19.3] 8.0	86.4 [25.3] 64.5 [18.9] 7.9	81.6 [23.9] 55.5 [16.3] 7.7	81.5 [23.9] 76.8 [22.5] 7.9	80.8 [23.7] 75.3 [22.1] 7.9
	105°F [40.6°C]	Total BTUH [kW] Sens BTUH [kW] Power	90.2 [26.4] 54.1 [15.9] 8.4	89.5 [26.2] 53 [15.5] 8.4	84.6 [24.8] 45.5 [13.3] 8.1	84.6 [24.8] 65 [19.1] 8.3	83.9 [24.6] 63.6 [18.6] 8.3	79.3 [23.2] 54.7 [16] 8.1	79 [23.2] 75.8 [22.2] 8.3	78.4 [23] 74.3 [21.8] 8.3
	110°F [43.3°C]	Total BTUH [kW] Sens BTUH [kW] Power	87.8 [25.7] 53.1 [15.6] 8.8	87.1 [25.5] 52 [15.2] 8.8	82.3 [24.1] 44.7 [13.1] 8.5	82.2 [24.1] 64 [18.8] 8.7	81.5 [23.9] 62.7 [18.4] 8.7	77 [22.6] 53.9 [15.8] 8.5	76.6 [22.5] 74.8 [21.9] 8.7	75.9 [22.2] 73.3 [21.5] 8.7
	115°F [46.1°C]	Total BTUH [kW] Sens BTUH [kW] Power	85.3 [25] 52.1 [15.3] 9.2	84.6 [24.8] 51.1 [15] 9.2	80 [23.4] 43.9 [12.9] 8.9	79.7 [23.4] 63 [18.5] 9.2	79.1 [23.2] 61.7 [18.1] 9.1	74.7 [21.9] 53 [15.5] 8.9	74.1 [21.7] 73.9 [21.7] 9.1	73.5 [21.5] 72.4 [21.2] 9.1
	120°F [48.9°C]	Total BTUH [kW] Sens BTUH [kW] Power	82.8 [24.3] 51.1 [15] 9.7	82.2 [24.1] 50.1 [14.7] 9.6	77.7 [22.8] 43.1 [12.6] 9.4	77.2 [22.6] 62 [18.2] 9.6	76.6 [22.5] 60.8 [17.8] 9.6	72.4 [21.2] 52.2 [15.3] 9.3	71.6 [21] 71.6 [21] 9.6	71.1 [20.8] 71.1 [20.8] 9.5
	125°F [51.7°C]	Total BTUH [kW] Sens BTUH [kW] Power	80.4 [23.6] 50.1 [14.7] 10.1	79.7 [23.4] 49.1 [14.4] 10.1	75.4 [22.1] 42.2 [12.4] 9.8	74.8 [21.9] 61 [17.9] 10.1	74.2 [21.7] 59.8 [17.5] 10	70.1 [20.5] 51.4 [15.1] 9.8	69.2 [20.3] 69.2 [20.3] 10.0	68.6 [20.1] 68.6 [20.1] 10.0

DR —Depression ratio Total —Total capacity x 1000 BTUH NOTES:

dbE —Entering air dry bulb Sens —Sensible capacity x 1000 BTUH. When the entering air dry bulb is other than 80°F [27°C], adjust the sensible

wbE —Entering air wet bulb Power —KW input capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

Appendix D – Cooling Data for (-)ACDYB 8.5 Ton

COOLING PERFORMANCE DATA - (-)ACDYB102										
Entering Indoor Air @ 80°F [26.7°C] dbE										
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]		3900 [1841]	3300 [1557]	2600 [1227]	3900 [1841]	3300 [1557]	2600 [1227]	3900 [1841]	3300 [1557]	2600 [1227]
DR		.05	.09	.12	.05	.09	.12	.05	.09	.12
Outdoor Dry Bulb Temperature	75°F [23.9°C]	Total BTUH [kW] Sens BTUH [kW] Power 119.4 [35] 69.7 [20.4] 7.3	115.6 [33.9] 64.3 [18.8] 7.2	111.1 [32.6] 57.9 [17] 7.1	112.3 [32.9] 83 [24.3] 7.3	108.7 [31.9] 76.5 [22.4] 7.2	104.6 [30.7] 68.9 [20.2] 7.1	106 [31.1] 95.9 [28.1] 7.2	102.6 [30.1] 88.4 [25.9] 7.1	98.6 [28.9] 79.7 [23.4] 6.9
	80°F [26.7°C]	Total BTUH [kW] Sens BTUH [kW] Power 116.8 [34.2] 68.4 [20] 7.7	113 [33.1] 63 [18.5] 7.6	108.7 [31.9] 56.8 [16.6] 7.5	109.7 [32.2] 81.6 [23.9] 7.7	106.2 [31.1] 75.3 [22.1] 7.6	102.1 [29.9] 67.8 [19.9] 7.4	103.3 [30.3] 94.6 [27.7] 7.5	100 [29.3] 87.2 [25.6] 7.4	96.2 [28.2] 78.5 [23] 7.3
	85°F [29.4°C]	Total BTUH [kW] Sens BTUH [kW] Power 114 [33.4] 66.9 [19.6] 8.1	110.3 [32.3] 61.7 [18.1] 8.0	106.1 [31.1] 55.6 [16.3] 7.8	106.9 [31.3] 80.2 [23.5] 8.1	103.5 [30.3] 73.9 [21.7] 7.9	99.5 [29.2] 66.6 [19.5] 7.8	100.5 [29.5] 93.1 [27.3] 7.9	97.3 [28.5] 85.8 [25.1] 7.8	93.6 [27.4] 77.3 [22.7] 7.7
	90°F [32.2°C]	Total BTUH [kW] Sens BTUH [kW] Power 111 [32.5] 65.4 [19.2] 8.5	107.5 [31.5] 60.3 [17.7] 8.3	103.3 [30.3] 54.3 [15.9] 8.2	103.9 [30.5] 78.6 [23] 8.4	100.6 [29.5] 72.5 [21.2] 8.3	96.7 [28.3] 65.3 [19.1] 8.1	97.6 [28.6] 91.6 [26.8] 8.3	94.5 [27.7] 84.4 [24.7] 8.2	90.8 [26.6] 76.1 [22.3] 8
	95°F [35.0°C]	Total BTUH [kW] Sens BTUH [kW] Power 107.9 [31.6] 63.7 [18.7] 8.9	104.5 [30.6] 58.7 [17.2] 8.7	100.4 [29.4] 52.9 [15.5] 8.6	100.8 [29.5] 77 [22.6] 8.8	97.6 [28.6] 71 [20.8] 8.7	93.8 [27.5] 63.9 [18.7] 8.5	94.5 [27.7] 89.9 [26.3] 8.7	91.4 [26.8] 82.9 [24.3] 8.5	87.9 [25.8] 74.7 [21.9] 8.4
	100°F [37.8°C]	Total BTUH [kW] Sens BTUH [kW] Power 104.6 [30.7] 62 [18.2] 9.2	101.3 [29.7] 57.1 [16.7] 9.1	97.4 [28.5] 51.5 [15.1] 8.9	97.6 [28.6] 75.2 [22] 9.2	94.4 [27.7] 69.4 [20.3] 9.0	90.8 [26.6] 62.5 [18.3] 8.9	91.2 [26.7] 88.2 [25.8] 9.1	88.3 [25.9] 81.3 [23.8] 8.9	84.9 [24.9] 73.2 [21.5] 8.7
	105°F [40.6°C]	Total BTUH [kW] Sens BTUH [kW] Power 101.2 [29.7] 60.1 [17.6] 9.6	98 [28.7] 55.4 [16.2] 9.5	94.2 [27.6] 49.9 [14.6] 9.3	94.1 [27.6] 73.4 [21.5] 9.6	91.1 [26.7] 67.6 [19.8] 9.4	87.6 [25.7] 60.9 [17.8] 9.2	87.8 [25.7] 86.3 [25.3] 9.4	85 [24.9] 79.5 [23.3] 9.3	81.7 [23.9] 71.7 [21] 9.1
	110°F [43.3°C]	Total BTUH [kW] Sens BTUH [kW] Power 97.6 [28.6] 58.1 [17] 10.0	94.5 [27.7] 53.6 [15.7] 9.8	90.9 [26.6] 48.3 [14.2] 9.6	90.6 [26.6] 71.4 [20.9] 9.9	87.7 [25.7] 65.8 [19.3] 9.8	84.3 [24.7] 59.3 [17.4] 9.6	84.2 [24.7] 84.2 [24.7] 9.8	81.5 [23.9] 77.7 [22.8] 9.7	78.4 [23] 70 [20.5] 9.5
	115°F [46.1°C]	Total BTUH [kW] Sens BTUH [kW] Power 93.9 [27.5] 56.1 [16.4] 10.4	90.9 [26.6] 51.7 [15.2] 10.2	87.4 [25.6] 46.6 [13.7] 10.0	86.8 [25.4] 69.3 [20.3] 10.3	84.1 [24.6] 63.9 [18.7] 10.2	80.8 [23.7] 57.6 [16.9] 10.0	80.5 [23.6] 80.5 [23.6] 10.2	77.9 [22.8] 75.8 [22.2] 10	74.9 [22] 68.3 [20] 9.8
	120°F [48.9°C]	Total BTUH [kW] Sens BTUH [kW] Power 90 [26.4] 53.9 [15.8] 10.7	87.2 [25.6] 49.7 [14.6] 10.6	83.8 [24.6] 44.8 [13.1] 10.4	83 [24.3] 67.2 [19.7] 10.7	80.3 [23.5] 61.9 [18.1] 10.5	77.2 [22.6] 55.8 [16.4] 10.3	76.6 [22.5] 76.6 [22.5] 10.6	74.1 [21.7] 73.8 [21.6] 10.4	71.3 [20.9] 66.5 [19.5] 10.2
	125°F [51.7°C]	Total BTUH [kW] Sens BTUH [kW] Power 86 [25.2] 51.6 [15.1] 11.1	83.2 [24.4] 47.6 [14] 10.9	80 [23.4] 42.9 [12.6] 10.7	78.9 [23.1] 64.9 [19] 11.1	76.4 [22.4] 59.8 [17.5] 10.9	73.4 [21.5] 53.9 [15.8] 10.7	72.6 [21.3] 72.6 [21.3] 10.9	70.2 [20.6] 70.2 [20.6] 10.8	67.5 [19.8] 64.6 [18.9] 10.6

DR —Depression ratio Total —Total capacity x 1000 BTUH NOTES:

dbE —Entering air dry bulb Sens —Sensible capacity x 1000 BTUH. When the entering air dry bulb is other than 80°F [27°C], adjust the sensible

wbE—Entering air wet bulb Power—KW input capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

P. APPENDICES

Appendix D – Cooling Data for (-)ACDYB 10 Ton

COOLING PERFORMANCE DATA - (-)ACDYB120											
Entering Indoor Air @ 80°F [26.7°C] dbE											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			4925 [2324]	4000 [1888]	3275 [1546]	4925 [2324]	4000 [1888]	3275 [1546]	4925 [2324]	4000 [1888]	3275 [1546]
DR			.05	.09	.12	.05	.09	.12	.05	.09	.12
Outdoor Dry Bulb Temperature	75°F [23.9°C]	Total BTUH [kW] Sens BTUH [kW] Power	151 [44.3] 89.7 [26.3] 9.3	144.9 [42.5] 80.9 [23.7] 9.1	140.1 [41.1] 74.1 [21.7] 9	141.7 [41.5] 109.5 [32.1] 9.2	136 [39.9] 98.8 [29] 9.0	131.5 [38.5] 90.4 [26.5] 8.9	134 [39.3] 130.8 [38.3] 9.1	128.5 [37.7] 118.1 [34.6] 8.9	124.3 [36.4] 108.1 [31.7] 8.7
	80°F [26.7°C]	Total BTUH [kW] Sens BTUH [kW] Power	147.9 [43.3] 88.4 [25.9] 9.7	141.9 [41.6] 79.8 [23.4] 9.5	137.3 [40.2] 73 [21.4] 9.3	138.6 [40.6] 108.2 [31.7] 9.6	133 [39] 97.6 [28.6] 9.4	128.6 [37.7] 89.4 [26.2] 9.2	130.9 [38.4] 129.5 [38] 9.5	125.6 [36.8] 116.9 [34.3] 9.3	121.4 [35.6] 107 [31.4] 9.1
	85°F [29.4°C]	Total BTUH [kW] Sens BTUH [kW] Power	144.6 [42.4] 86.9 [25.5] 10.1	138.8 [40.7] 78.5 [23] 9.9	134.2 [39.3] 71.8 [21] 9.7	135.3 [39.7] 106.7 [31.3] 10.0	129.8 [38] 96.3 [28.2] 9.8	125.6 [36.8] 88.2 [25.8] 9.6	127.6 [37.4] 127.6 [37.4] 9.8	122.4 [35.9] 115.6 [33.9] 9.6	118.4 [34.7] 105.8 [31] 9.5
	90°F [32.2°C]	Total BTUH [kW] Sens BTUH [kW] Power	141.1 [41.4] 85.4 [25] 10.4	135.4 [39.7] 77 [22.6] 10.2	130.9 [38.4] 70.5 [20.7] 10.1	131.8 [38.6] 105.1 [30.8] 10.4	126.5 [37.1] 94.9 [27.8] 10.1	122.3 [35.8] 86.9 [25.5] 10.0	124.1 [36.4] 124.1 [36.4] 10.2	119.1 [34.9] 114.2 [33.5] 10.0	115.1 [33.7] 104.5 [30.6] 9.8
	95°F [35.0°C]	Total BTUH [kW] Sens BTUH [kW] Power	137.4 [40.3] 83.6 [24.5] 10.8	131.8 [38.6] 75.5 [22.1] 10.6	127.5 [37.4] 69.1 [20.3] 10.4	128.1 [37.5] 103.4 [30.3] 10.7	122.9 [36] 93.3 [27.3] 10.5	118.8 [34.8] 85.4 [25] 10.3	120.3 [35.3] 120.3 [35.3] 10.6	115.5 [33.9] 112.6 [33] 10.4	111.7 [32.7] 103.1 [30.2] 10.2
	100°F [37.8°C]	Total BTUH [kW] Sens BTUH [kW] Power	133.4 [39.1] 81.7 [23.9] 11.2	128.1 [37.5] 73.8 [21.6] 11.0	123.8 [36.3] 67.5 [19.8] 10.8	124.1 [36.4] 101.5 [29.7] 11.1	119.1 [34.9] 91.6 [26.8] 10.9	115.2 [33.8] 83.9 [24.6] 10.7	116.4 [34.1] 116.4 [34.1] 11.0	111.7 [32.7] 110.9 [32.5] 10.8	108 [31.7] 101.5 [29.7] 10.6
	105°F [40.6°C]	Total BTUH [kW] Sens BTUH [kW] Power	129.3 [37.9] 79.7 [23.4] 11.6	124.1 [36.4] 72 [21.1] 11.3	120 [35.2] 65.9 [19.3] 11.2	120 [35.2] 99.5 [29.2] 11.5	115.1 [33.7] 89.8 [26.3] 11.3	111.3 [32.6] 82.2 [24.1] 11.1	112.3 [32.9] 112.3 [32.9] 11.3	107.7 [31.6] 107.7 [31.6] 11.1	104.2 [30.5] 99.8 [29.2] 10.9
	110°F [43.3°C]	Total BTUH [kW] Sens BTUH [kW] Power	124.9 [36.6] 77.6 [22.7] 12.0	119.9 [35.1] 70 [20.5] 11.7	115.9 [34] 64.1 [18.8] 11.5	115.6 [33.9] 97.3 [28.5] 11.9	111 [32.5] 87.9 [25.8] 11.6	107.3 [31.4] 80.4 [23.6] 11.4	107.9 [31.6] 107.9 [31.6] 11.7	103.5 [30.3] 103.5 [30.3] 11.5	100.1 [29.3] 98.1 [28.8] 11.3
	115°F [46.1°C]	Total BTUH [kW] Sens BTUH [kW] Power	120.4 [35.3] 75.2 [22] 12.3	115.5 [33.9] 67.9 [19.9] 12.1	111.7 [32.7] 62.2 [18.2] 11.9	111.1 [32.6] 95 [27.8] 12.2	106.6 [31.2] 85.8 [25.1] 12.0	103.1 [30.2] 78.5 [23] 11.8	103.3 [30.3] 103.3 [30.3] 12.1	99.2 [29.1] 99.2 [29.1] 11.9	95.9 [28.1] 95.9 [28.1] 11.7
	120°F [48.9°C]	Total BTUH [kW] Sens BTUH [kW] Power	115.6 [33.9] 72.8 [21.3] 12.7	110.9 [32.5] 65.7 [19.3] 12.5	107.3 [31.4] 60.1 [17.6] 12.3	106.3 [31.2] 92.6 [27.1] 12.6	102 [29.9] 83.5 [24.5] 12.4	98.6 [28.9] 76.5 [22.4] 12.2	98.5 [28.9] 98.5 [28.9] 12.5	94.6 [27.7] 94.6 [27.7] 12.2	91.5 [26.8] 91.5 [26.8] 12.0
	125°F [51.7°C]	Total BTUH [kW] Sens BTUH [kW] Power	110.6 [32.4] 70.2 [20.6] 13.1	106.1 [31.1] 63.3 [18.6] 12.8	102.6 [30.1] 58 [17] 12.6	101.3 [29.7] 90 [26.4] 13.0	97.2 [28.5] 81.2 [23.8] 12.7	94 [27.5] 74.3 [21.8] 12.5	93.5 [27.4] 93.5 [27.4] 12.9	89.8 [26.3] 89.8 [26.3] 12.6	86.8 [25.4] 86.8 [25.4] 12.4

DR —Depression ratio Total —Total capacity x 1000 BTUH NOTES:

dbE —Entering air dry bulb Sens —Sensible capacity x 1000 BTUH. When the entering air dry bulb is other than 80°F [27°C], adjust the sensible

wbE—Entering air wet bulb Power—KW input capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

Appendix D – Cooling Data for (-)ACDYB 12.5 Ton

COOLING PERFORMANCE DATA - (-)ACDYB150										
Entering Indoor Air @ 80°F [26.7°C] dbE										
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]		6000 [2832]	4025 [1900]	4000 [1888]	6000 [2832]	4025 [1900]	4000 [1888]	6000 [2832]	4025 [1900]	4000 [1888]
DR		.05	.09	.12	.05	.09	.12	.05	.09	.12
Outdoor Dry Bulb Temperature	75°F [23.9°C]	Total BTUH [kW] Sens BTUH [kW] Power	193.6 [56.7] 116.5 [34.1] 7.5	177.8 [52.1] 94.8 [27.8] 7.2	177.6 [52.1] 94.5 [27.7] 7.2	181.3 [53.1] 136.8 [40.1] 7.8	166.5 [48.8] 111.3 [32.6] 7.5	166.3 [48.7] 111 [32.5] 7.5	170.3 [49.9] 155.5 [45.6] 7.3	156.3 [45.8] 126.6 [37.1] 7.0
	80°F [26.7°C]	Total BTUH [kW] Sens BTUH [kW] Power	189.3 [55.5] 114.1 [33.4] 7.9	173.8 [50.9] 92.9 [27.2] 7.6	173.6 [50.9] 92.6 [27.1] 7.6	177 [51.9] 134.4 [39.4] 8.3	162.5 [47.6] 109.4 [32.1] 7.9	162.3 [47.6] 109 [31.9] 7.9	165.9 [48.6] 153.2 [44.9] 7.7	152.3 [44.6] 124.6 [36.5] 7.4
	85°F [29.4°C]	Total BTUH [kW] Sens BTUH [kW] Power	184.9 [54.2] 111.6 [32.7] 8.4	169.8 [49.8] 90.8 [26.6] 8.0	169.6 [49.7] 90.6 [26.6] 8.0	172.6 [50.6] 131.9 [38.7] 8.7	158.5 [46.5] 107.3 [31.4] 8.3	158.3 [46.4] 107 [31.4] 8.3	161.5 [47.3] 150.7 [44.2] 8.2	148.3 [43.5] 122.6 [35.9] 7.8
	90°F [32.2°C]	Total BTUH [kW] Sens BTUH [kW] Power	180.5 [52.9] 109.1 [32] 8.8	165.7 [48.6] 88.7 [26] 8.4	165.5 [48.5] 88.5 [25.9] 8.4	168.1 [49.3] 129.3 [37.9] 9.1	154.4 [45.3] 105.2 [30.8] 8.8	154.2 [45.2] 104.9 [30.7] 8.8	157.1 [46] 148.1 [43.4] 8.6	144.2 [42.3] 120.5 [35.3] 8.2
	95°F [35.0°C]	Total BTUH [kW] Sens BTUH [kW] Power	175.9 [51.6] 106.4 [31.2] 9.2	161.5 [47.3] 86.6 [25.4] 8.8	161.4 [47.3] 86.3 [25.3] 8.8	163.6 [47.9] 126.6 [37.1] 9.6	150.2 [44] 103 [30.2] 9.2	150 [44] 102.8 [30.1] 9.2	152.6 [44.7] 145.4 [42.6] 9.0	140.1 [41.1] 118.3 [34.7] 8.7
	100°F [37.8°C]	Total BTUH [kW] Sens BTUH [kW] Power	171.3 [50.2] 103.6 [30.4] 9.7	157.3 [46.1] 84.3 [24.7] 9.3	157.1 [46] 84 [24.6] 9.3	159 [46.6] 123.8 [36.3] 10.0	146 [42.8] 100.8 [29.5] 9.6	145.8 [42.7] 100.5 [29.5] 9.6	148 [43.4] 142.6 [41.8] 9.5	135.8 [39.8] 116 [34] 9.1
	105°F [40.6°C]	Total BTUH [kW] Sens BTUH [kW] Power	166.7 [48.9] 100.7 [29.5] 10.1	153 [44.8] 81.9 [24] 9.7	152.9 [44.8] 81.7 [23.9] 9.7	154.4 [45.3] 120.9 [35.4] 10.4	141.7 [41.5] 98.4 [28.8] 10.0	141.6 [41.5] 98.1 [28.8] 10.0	143.3 [42] 139.7 [40.9] 9.9	131.6 [38.6] 113.7 [33.3] 9.5
	110°F [43.3°C]	Total BTUH [kW] Sens BTUH [kW] Power	161.9 [47.5] 97.6 [28.6] 10.5	148.7 [43.6] 79.4 [23.3] 10.1	148.5 [43.5] 79.2 [23.2] 10.1	149.6 [43.8] 117.9 [34.6] 10.9	137.4 [40.3] 95.9 [28.1] 10.4	137.2 [40.2] 95.7 [28] 10.4	138.6 [40.6] 136.7 [40.1] 10.3	127.2 [37.3] 111.2 [32.6] 9.9
	115°F [46.1°C]	Total BTUH [kW] Sens BTUH [kW] Power	157.1 [46] 94.5 [27.7] 11	144.3 [42.3] 76.9 [22.5] 10.5	144.1 [42.2] 76.7 [22.5] 10.5	144.8 [42.4] 114.8 [33.6] 11.3	132.9 [39] 93.4 [27.4] 10.8	132.8 [38.9] 93.1 [27.3] 10.8	133.8 [39.2] 133.5 [39.1] 10.8	122.8 [36] 108.7 [31.9] 10.3
	120°F [48.9°C]	Total BTUH [kW] Sens BTUH [kW] Power	152.3 [44.6] 91.2 [26.7] 11.4	139.8 [41] 74.2 [21.7] 10.9	139.6 [40.9] 74 [21.7] 10.9	139.9 [41] 111.5 [32.7] 11.7	128.5 [37.7] 90.7 [26.6] 11.3	128.3 [37.6] 90.5 [26.5] 11.2	128.9 [37.8] 128.9 [37.8] 11.2	118.3 [34.7] 106 [31.1] 10.7
	125°F [51.7°C]	Total BTUH [kW] Sens BTUH [kW] Power	147.3 [43.2] 87.9 [25.8] 11.8	135.2 [39.6] 71.5 [21] 11.3	135.1 [39.6] 71.3 [20.9] 11.3	135 [39.6] 108.2 [31.7] 12.2	123.9 [36.3] 88 [25.8] 11.7	123.8 [36.3] 87.7 [25.7] 11.7	123.9 [36.3] 123.9 [36.3] 11.6	113.8 [33.4] 103.3 [30.3] 11.2

DR —Depression ratio Total —Total capacity x 1000 BTUH NOTES:

dbE —Entering air dry bulb Sens —Sensible capacity x 1000 BTUH. When the entering air dry bulb is other than 80°F [27°C], adjust the sensible

wbE—Entering air wet bulb Power—KW input capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

P. APPENDICES

Appendix D - Reheat Data for (-)ACDYB 7.5 Ton

GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE) - (-)ACDYB090												
Entering Indoor Air @ 75°F [23.9°C] dbE												
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]			2190 [1034]	1825 [861]	1460 [689]	2190 [1034]	1825 [861]	1460 [689]	2190 [1034]	1825 [861]	1460 [689]	
Outdoor Dry Bulb Temperature	60°F [15.6°C]	Total BTUH [kW]	28.8 [8.4]	27.8 [8.1]	26.8 [7.8]	25.4 [7.4]	24.5 [7.2]	23.6 [6.9]	24.6 [7.2]	23.8 [7]	22.9 [6.7]	
		Sens BTUH [kW]	3.2 [0.9]	2.9 [0.8]	2.6 [0.8]	3.8 [1.1]	3.5 [1]	3.1 [0.9]	7.3 [2.1]	6.7 [2]	6.1 [1.8]	
		Power	4.5	4.4	4.4	4.5	4.4	4.4	4.5	4.4	4.4	
	65°F [18.3°C]	Total BTUH [kW]	28.6 [8.4]	27.6 [8.1]	26.6 [7.8]	25.2 [7.4]	24.3 [7.1]	23.4 [6.9]	24.4 [7.2]	23.6 [6.9]	22.7 [6.7]	
		Sens BTUH [kW]	3.1 [0.9]	2.9 [0.8]	2.6 [0.8]	3.8 [1.1]	3.4 [1]	3.1 [0.9]	7.3 [2.1]	6.7 [2]	6.1 [1.8]	
		Power	4.5	4.4	4.4	4.5	4.5	4.4	4.5	4.4	4.4	
	70°F [21.1°C]	Total BTUH [kW]	28.3 [8.3]	27.3 [8]	26.3 [7.7]	24.8 [7.3]	24 [7]	23.1 [6.8]	24.1 [7.1]	23.3 [6.8]	22.4 [6.6]	
		Sens BTUH [kW]	3 [0.9]	2.7 [0.8]	2.5 [0.7]	3.6 [1.1]	3.3 [1]	3 [0.9]	7.1 [2.1]	6.5 [1.9]	5.9 [1.7]	
		Power	4.5	4.5	4.4	4.6	4.5	4.4	4.5	4.5	4.4	
Outdoor Dry Bulb Temperature	75°F [23.9°C]	Total BTUH [kW]	27.8 [8.2]	26.8 [7.9]	25.9 [7.6]	24.4 [7.1]	23.5 [6.9]	22.7 [6.6]	23.6 [6.9]	22.8 [6.7]	22 [6.4]	
		Sens BTUH [kW]	2.7 [0.8]	2.4 [0.7]	2.2 [0.6]	3.3 [1]	3 [0.9]	2.7 [0.8]	6.9 [2]	6.3 [1.8]	5.7 [1.7]	
		Power	4.6	4.5	4.4	4.6	4.5	4.4	4.6	4.5	4.4	
	80°F [26.7°C]	Total BTUH [kW]	27.2 [8]	26.3 [7.7]	25.3 [7.4]	23.8 [7]	23 [6.7]	22.1 [6.5]	23.1 [6.8]	22.3 [6.5]	21.4 [6.3]	
		Sens BTUH [kW]	2.3 [0.7]	2.1 [0.6]	1.9 [0.5]	2.9 [0.8]	2.6 [0.8]	2.4 [0.7]	6.4 [1.9]	5.9 [1.7]	5.3 [1.6]	
		Power	4.6	4.5	4.4	4.6	4.5	4.5	4.6	4.5	4.4	
	85°F [29.4°C]	Total BTUH [kW]	26.5 [7.8]	25.6 [7.5]	24.6 [7.2]	23.1 [6.8]	22.3 [6.5]	21.5 [6.3]	22.3 [6.5]	21.6 [6.3]	20.8 [6.1]	
		Sens BTUH [kW]	1.7 [0.5]	1.6 [0.5]	1.4 [0.4]	2.3 [0.7]	2.1 [0.6]	1.9 [0.6]	5.9 [1.7]	5.4 [1.6]	4.9 [1.4]	
		Power	4.6	4.6	4.5	4.7	4.6	4.5	4.6	4.6	4.5	
Outdoor Dry Bulb Temperature	90°F [32.2°C]	Total BTUH [kW]	25.7 [7.5]	24.8 [7.3]	23.9 [7]	22.2 [6.5]	21.5 [6.3]	20.7 [6.1]	21.5 [6.3]	20.7 [6.1]	20 [5.9]	
		Sens BTUH [kW]	1 [0.3]	0.9 [0.3]	0.8 [0.2]	1.6 [0.5]	1.5 [0.4]	1.4 [0.4]	5.2 [1.5]	4.8 [1.4]	4.3 [1.3]	
		Power	4.7	4.6	4.5	4.7	4.6	4.5	4.7	4.6	4.5	

GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE) - (-)ACDYB090												
Entering Indoor Air @ 75°F [23.9°C] dbE												
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]			3600 [1699]	3150 [1487]	2400 [1133]	3600 [1699]	3150 [1487]	2400 [1133]	3600 [1699]	3150 [1487]	2400 [1133]	
Outdoor Dry Bulb Temperature	60°F [15.6°C]	Total BTUH [kW]	48.5 [14.2]	47.3 [13.9]	45.3 [13.3]	32 [9.4]	31.2 [9.1]	29.9 [8.8]	31.1 [9.1]	30.3 [8.9]	29 [8.5]	
		Sens BTUH [kW]	4.1 [1.2]	3.8 [1.1]	3.4 [1]	1.9 [0.5]	1.8 [0.5]	1.6 [0.5]	7.6 [2.2]	7.2 [2.1]	6.4 [1.9]	
		Power	7	6.9	6.7	6.9	6.8	6.7	7	6.9	6.7	
	70°F [21.1°C]	Total BTUH [kW]	50.8 [14.9]	49.6 [14.5]	47.4 [13.9]	34.3 [10.1]	33.5 [9.8]	32 [9.4]	33.4 [9.8]	32.5 [9.5]	31.1 [9.1]	
		Sens BTUH [kW]	6.9 [2]	6.5 [1.9]	5.7 [1.7]	4.6 [1.4]	4.4 [1.3]	3.9 [1.1]	10.4 [3.1]	9.8 [2.9]	8.7 [2.5]	
		Power	6.9	6.8	6.6	6.8	6.7	6.6	6.9	6.8	6.6	
	80°F [26.7°C]	Total BTUH [kW]	51.6 [15.1]	50.3 [14.7]	48.1 [14.1]	35.1 [10.3]	34.2 [10]	32.7 [9.6]	34.1 [10]	33.3 [9.8]	31.8 [9.3]	
		Sens BTUH [kW]	8 [2.4]	7.5 [2.2]	6.7 [2]	5.8 [1.7]	5.4 [1.6]	4.8 [1.4]	11.6 [3.4]	10.9 [3.2]	9.7 [2.8]	
		Power	6.9	6.8	6.7	6.8	6.8	6.6	6.9	6.8	6.7	
Outdoor Dry Bulb Temperature	90°F [32.2°C]	Total BTUH [kW]	50.8 [14.9]	49.6 [14.5]	47.4 [13.9]	34.3 [10.1]	33.5 [9.8]	32 [9.4]	33.4 [9.8]	32.5 [9.5]	31.1 [9.1]	
		Sens BTUH [kW]	7.6 [2.2]	7.1 [2.1]	6.3 [1.8]	5.3 [1.6]	5 [1.5]	4.4 [1.3]	11.1 [3.3]	10.4 [3.1]	9.3 [2.7]	
		Power	7	6.9	6.8	7	6.9	6.7	7	6.9	6.8	
	100°F [37.8°C]	Total BTUH [kW]	48.5 [14.2]	47.3 [13.9]	45.3 [13.3]	32 [9.4]	31.2 [9.1]	29.9 [8.7]	31.1 [9.1]	30.3 [8.9]	29 [8.5]	
		Sens BTUH [kW]	5.5 [1.6]	5.1 [1.5]	4.6 [1.3]	3.2 [0.9]	3 [0.9]	2.7 [0.8]	9 [2.6]	8.5 [2.5]	7.5 [2.2]	
		Power	7.2	7.1	7	7.2	7.1	6.9	7.2	7.1	7	
	110°F [43.3°C]	Total BTUH [kW]	44.7 [13.1]	43.6 [12.8]	41.7 [12.2]	28.2 [8.3]	27.5 [8]	26.3 [7.7]	27.2 [8]	26.5 [7.8]	25.4 [7.4]	
		Sens BTUH [kW]	1.8 [0.5]	1.6 [0.5]	1.5 [0.4]	-0.5 [-0.1]	-0.5 [-0.1]	-0.4 [-0.1]	5.3 [1.6]	5 [1.5]	4.4 [1.3]	
		Power	7.5	7.4	7.3	7.5	7.4	7.2	7.5	7.4	7.3	
Outdoor Dry Bulb Temperature	120°F [48.9°C]	Total BTUH [kW]	39.3 [11.5]	38.3 [11.2]	36.6 [10.7]	22.8 [6.7]	22.2 [6.5]	21.2 [6.2]	21.8 [6.4]	21.3 [6.2]	20.3 [6]	
		Sens BTUH [kW]	-3.6 [-1.1]	-3.4 [-1]	-3 [-0.9]	-5.8 [-1.7]	-5.5 [-1.6]	-4.9 [-1.4]	0 [0]	0 [0]	0 [0]	
		Power	7.9	7.8	7.7	7.9	7.8	7.6	7.9	7.8	7.7	