



# INSTALLATION DATA SHEET



Doc. No.: TI.IDS-024  
Version 1.3

## AS 2004 SERIES

Date: 03-09-07

MODEL	AS 20	AS 25	AS 30
<b>COOLING DATA:</b>			
Cooling System Available (Std. / Opt.)	A / C	A / C	A / C
Standard Ambient Temp. Range [F]	40 - 115	40 - 115	40 - 115
Air inlet opening [sq. ft.]	5.4	5.4	6.5
Cooling Fan Capacity [cfm] (forced ventilation with exhaust fan)	3550	4120	4709
Internal Cooling Fan Capacity [cfm] (exhaust air used for space heating)	2118	2118	2354
Max. Additional Pressure Drop for Ducts [inch Water Column]	1/4	1/4	1/6
Approach Temp. [°F]	10.8	12.6	14.4
Typical Heat Rejected [BTU / HR]	62,807	75,304	86,519
Recommended Heating Duct (W x H) [in]	13 3/4 x 25 5/8	13 3/4 x 25 5/8	13 3/4 X 25 5/8
<b>CONNECTIONS [in.]:</b>			
Air Discharge [NPT]	1 1/4	1 1/4	1 1/4
Power Input Conduit Opening(s)	1 5/8	1 5/8	1 5/8
<b>NOISE LEVEL DATA:</b>			
(Measured in dB(A) at 1 m (approx. 40 in.) According to CAGI)			
A/C w/Standard Cabinet	67	69	71
<b>ENVELOPE DIMENSIONS &amp; WEIGHT</b>			
Length [in.]	44 1/2	44 1/2	44 1/2
Width [in.]	32 5/8	32 5/8	32 5/8
Height [in.]	47 3/4	47 3/4	47 3/4
Floor Space [sq. ft.]	4.5	4.5	4.5
Weight [lbs]	860	893	926
Estimated Shipping Weight (lb)	913	946	979



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<b>ELECTRICAL DATA:</b>			
NEMA Nominal Efficiency [%]	91.5%	92.0%	91.0%
Package Full Load Amps @ 208V/3ph/60 Hz/YD [FLA]	61	73	82
Package Full Load Amps @ 230V/3ph/60 Hz/YD [FLA]	55	66	74
Package Full Load Amps @ 460V/3ph/60 Hz/YD [FLA]	27	33	37
Package Full Load Amps @ 575V/3ph/60 Hz/YD [FLA]	22	26	29
Drive Motor Full Load HP	20	25	30
Total Package Full Load HP	20	25	30
Drive Motor Insulation Class	F	F	F
Drive Motor Enclosure Type	TEFC	TEFC	TEFC
Control Cabinet Class [NEMA]	12	12	12
Continuous Duty [Hours / Day]	24	24	24
<b>START-UP DATA:</b>			
Drive Motor Overload Set Point [A] @ 208V/3ph/60Hz/YD	39	46	52
Drive Motor Overload Set Point [A] @ 230V/3ph/60Hz/YD	35	42	47
Drive Motor Overload Set Point [A] @ 460V/3ph/60Hz/YD	17	21	24
Drive Motor Overload Set Point [A] @ 575V/3ph/60Hz/YD	14	17	19
Start Timer Set-Point [sec]	6	6	6
Idle Timer Set-Point [min]	4	4	4
Recommended Disconnect Fuse Size [Amps] @ 208V/3ph/60Hz/YD *	90	100	110
Recommended Disconnect Fuse Size [Amps] @ 230V/3ph/60Hz/YD *	80	90	110
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz/YD *	40	45	50
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz/YD *	30	35	40
Recommended Disconnect Wire Size [AWG/kcmil] @ 208V/3ph/60Hz/YD **	2	1/0	1
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/3ph/60Hz/YD **	3	1	1/0
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz/YD **	6	6	4
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz/YD **	8	8	6



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<b>OIL SYSTEM DATA:</b>			
Oil System Capacity [gal.]	3	3	3
Typical Oil Consumption [fl. oz./100 h]	5.1	6.1	6.1
<b>MAINTENANCE PARTS:</b>			
Air Inlet Filter	6.4163.0	6.4163.0	6.4163.0
Filter Mat	5.3337.0	5.3337.0	5.3337.0
Filter Mat for Control Cabinet	6.3572.0	6.3572.0	6.3572.0
Fluid Filter	6.3463.0	6.3463.0	6.3463.0
Fluid Separator Kit	6.3789.0	6.3789.0	6.3789.0
Maintenance Kit for Optional 5-year Warranty	AN5YKAS2004	AN5YKAS2004	AN5YKAS2004
Maintenance Kit for Optional 5-year Warranty, with food-grade lubricant	AN5YKAS2004F	AN5YKAS2004F	AN5YKAS2004F

1. Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EPACT compliant.

Main power supply and overcurrent protection must be installed by a qualified electrician in accordance with NEC, OSHA, and any applicable local codes.

\* Dual-element time-delay fuse; based on 2005 NEC 240.6, 430.52, and Tables 430.52, 430.148, and 430.150.

\*\* Based on 2005 NEC 110.14(C), 220.3, 310.15, Table 310.16, 430.6, 430.22, 430.24 and Tables 430.148 and 430.150.

Multi-strand copper core wire at 40° C ambient temperature, with 60° temperature rating, and an insulation rating of 90 °C.