

Nautilair 150532-56

MECHANICAL

DIAMETER: 12.3" (312mm)
DISCHARGE TYPE: Tangential
DISCHARGE: Large Square Flange
APPROXIMATE WEIGHT: 28lbs/12.7Kg

PERFORMANCE

FLOW CLASSIFICATION: Standard Output
STAGES: 1 Stage

TEMPERATURE

OPERATING TEMP: 0°C to 50°C
STORAGE TEMP: -40°C to 85°C

ELECTRICAL

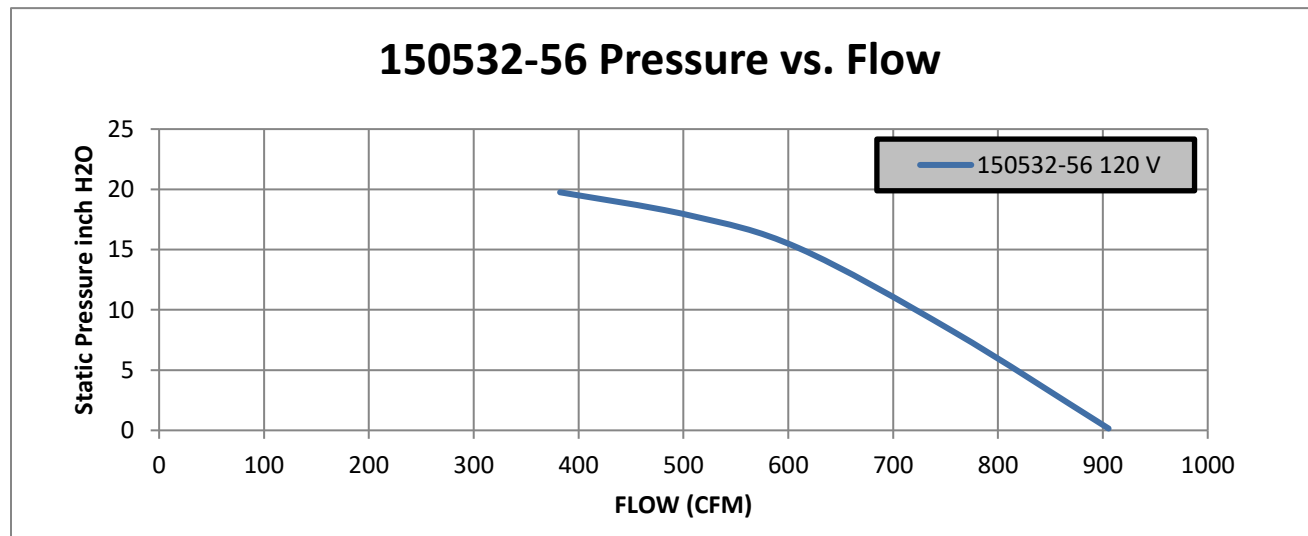
OPERATING INPUT VOLTAGE RANGE: 108-132VAC
OPERATING INPUT VOLTAGE: 120VAC

OPTIONAL FEATURES

SPEED CONTROL: PWM, open loop

REGULATORY CERTIFICATIONS

COMPLIANCE: RoHS and Reach
UL FILE NUMBER: E94403
AGENCY FULL LOAD AMPS: 23A

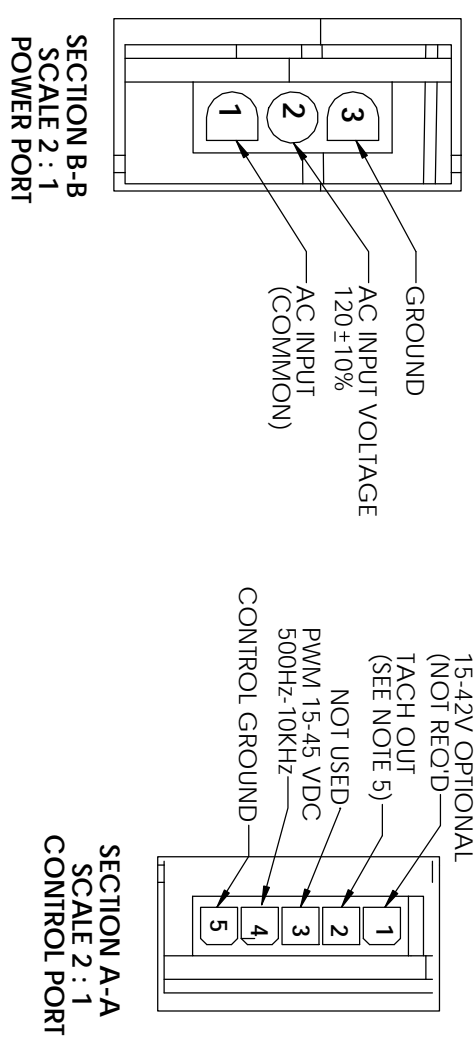
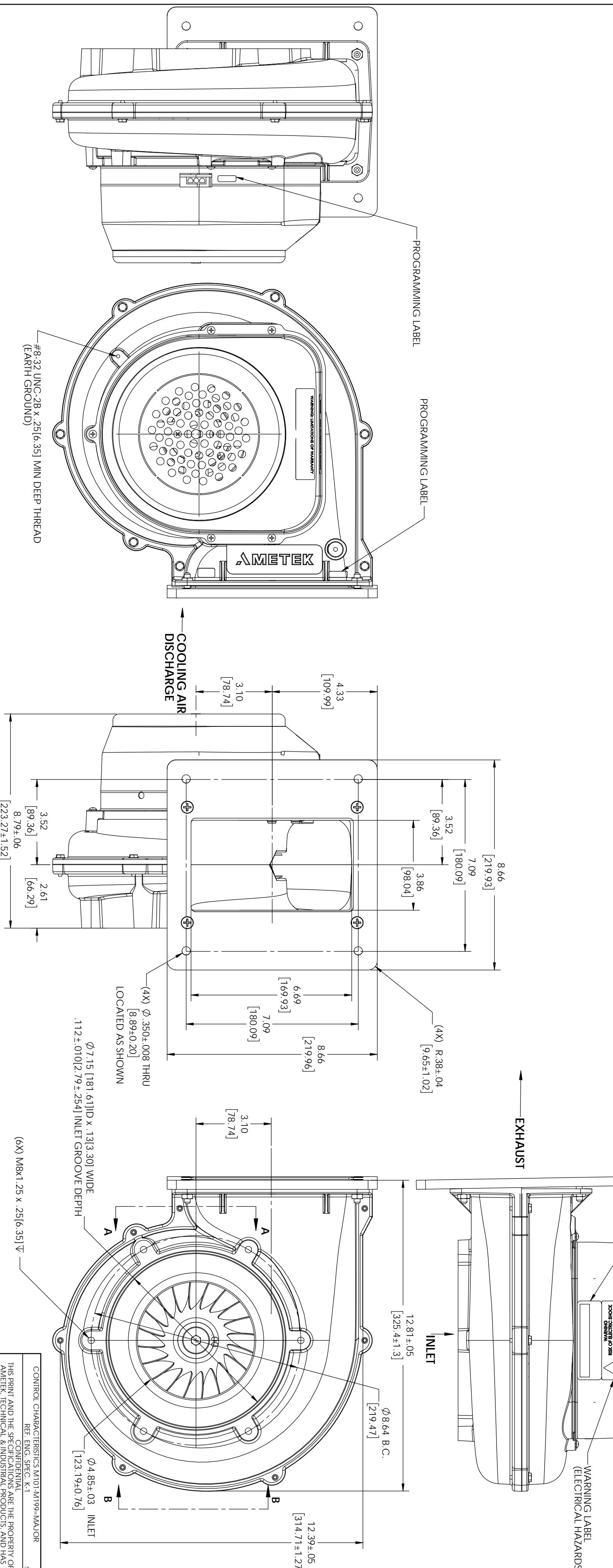


Flow Rate <i>cfm</i>	Static Pressure <i>inch H2O</i>	Total Pressure <i>inch H2O</i>	Current <i>A</i>	Power Demand <i>W</i>	Voltage <i>V</i>	Flow Temp. <i>°C</i>	Rotational Speed <i>rpm</i>	Static Efficiency <i>%</i>	Total Efficiency <i>%</i>
905.45	0.15	0.57	21.46	1499.76	120.40	22.10	5430	1.06	4.05
756.86	8.22	8.52	23.57	1681.40	120.24	23.02	6300	43.72	45.28
609.98	15.12	15.31	25.81	1899.86	119.98	24.22	7470	57.53	58.25
505.88	17.84	17.97	25.76	1892.85	119.99	24.95	7950	56.59	57.00
382.37	19.75	19.83	24.54	1775.98	120.13	26.05	8400	50.62	50.81

DESIGN APPLICATION: Designed to provide variable airflow for low NOx and CO emission in high efficiency gas fired combustion systems. Built with non-sparking materials. Blower housing assembly constructed of die cast aluminum. Impeller constructed from hardened aluminum. Rubber isolation mounts built into blower construction to dampen vibration within the motor. Two-piece blower housing assembly sealed, and factory leak checked. Customer is responsible to check for any leakage once the blower is installed into the final application.

MISCELLANEOUS: Motor cooling inlet and discharge vents must not be obstructed. Motor ventilation air to be free of oils and other foreign particles. Blower is to be mounted so ventilation air cannot be re-circulated.

- NOTES:
1. ALL INTAKE, EXHAUST, COOLING DUCTS AND VENTS MUST NOT BE OBSTRUCTED BY MOUNTING.
 2. MOTOR VENTILATION AIR TO BE FREE OF OILS AND OTHER FOREIGN PARTICLES. (I.E. BREATHING AIR QUALITY)
 3. **MOTOR TO BE MOUNTED SO THAT MOTOR VENTILATION AIR CANNOT RECIRCULATE.**
 3. **POWER CONNECTION:** BLOWER CONNECTOR, MATES WITH CUSTOMER SUPPLIED AMP CONNECTOR. (PN#350766-1) WITH FEMALE TERMINALS. PNM#350536-3 OR EQUIVALENT ON 14GA, 125 °C, 600V WIRE.
 4. **CONTROL CONNECTION:** BLOWER CONNECTOR, MATES WITH CUSTOMER SUPPLIED MOLEX SERIES 5557 CONNECTOR HOUSING. (PN#39-01-4051) WITH FEMALE TERMINALS. (PN#39-00-0208) OR EQUIVALENT ON 22GA, 125 °, 300V WIRE.
 5. TACH OUTPUT-2 PULSES PER REVOLUTION. SIGNAL IS A FREQUENCY (HZ) INDICATOR OF THE RPM
 6. CAN BE MEASURED WITH RESPECT TO GROUND (PIN 5). RPM=TACH. OUT x 30.
 6. ROHS AND REACH COMPLIANCE, REFERENCE AMETEK ENVIRONMENTAL SPECIFICATION ES0010 FOR DETAILS.



REV	FOR	BY	DATE	APP'D
A	REVISION		1-11-14	AD
B	REVISION		12-2-14	KD
C	REVISION		8-18-15	KD
D	REVISION		5-29-19	JL

CONTROL CHARACTERISTICS M101M195-A/A09 SW

REF. ENG. SPEC. K-1

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DATE: 1-14-14

DESIGNED BY: M. HELWING

DRAWN BY: M. HELWING

DATE: 1-14-14

CONTROL: M101M195-A/A09

DATE: 1-14-14

REVISIONS:

REVISION NO. 1

DESCRIPTION: NAUTILAIR M12.3 120V STANDARD OUTPUT PWM SPD CTRLW/PULL UP OPEN LOOP

DATE: 1-14-14

REF: E-51787

REF: 150532-50

TRNG NO. 106-1

SHEET 1 OF 1

AMETEK TECHNICAL INDUSTRIAL PRODUCTS

150532-56-0