AMUTECH™

intellinox

AME SERIES

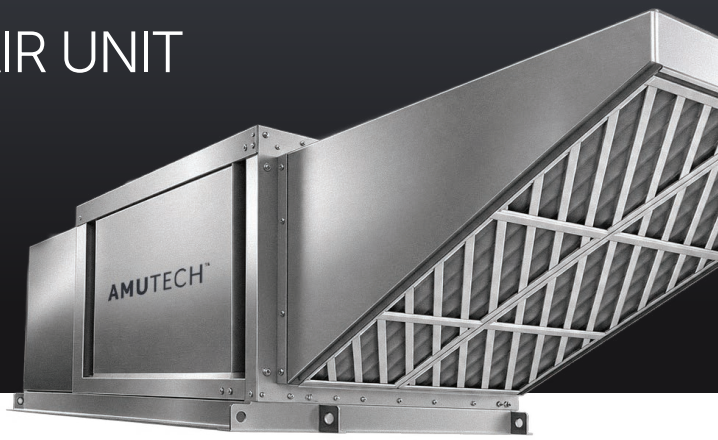
DIRECT GAS-FIRED MAKE-UP AIR UNIT

100% OUTDOOR AIR

30 – 100%
AIRFLOW MODULATION

BEST-IN-CLASS WARRANTY

Intelligent. Connected. Created for Demand Control.



Key Features

- **Lower total cost of ownership** — engineered for energy efficiency, durability, easy maintenance and remote diagnostics
- **Intelligent & demand-control ready** — integrated room temperature, duct temperature and building pressure control
- **Serviceable** — pivoting burner and full-size access doors for quick yearly maintenance
- **Patented burner air velocity control mechanism** — no wear parts
- **Connected** — BMS integration, a local Wi-Fi access point for faster start-up and diagnostics, and a cloud service for remote monitoring and dashboards

Warranty

- **3-year** limited parts warranty
- Exclusive **10-year** limited parts warranty on the burner air velocity control mechanism

Certification

ANSI Z83.4 | CSA 3.7 (2017) — Non-recirculating Direct Gas-fired Heating and Forced Ventilation Appliances for Commercial and Industrial Application

Control it your way

Temperature setpoint and fan speed managed from the source that suits your site.

Standalone
AMUTECH™ intelligent room thermostat

BMS
BACnet, Modbus or I/O signals

Confort du Chef®
via ECOAZUR® DCKV controller



Heat Pump Ready

- Integrates with **INTELLINOX® AIR** air-source heat pumps
- Increases energy efficiency and comfort with efficient heating and cooling



COMMERCIAL KITCHENS

Confort du Chef® Ready

- Smart climate management for professional kitchens
- Reduce energy use and GHG emissions by up to 70% when integrated with **ECOAZUR®** DCKV

A Smarter Take on Make-Up Air. A Lower Cost of Ownership.

EVERY AMUTECH™ DESIGN CHOICE TARGETS LOWER ENERGY, MAINTENANCE AND SERVICE COSTS — FOR THE ENTIRE LIFE OF THE UNIT.

ENERGY EFFICIENCY

- **Direct-drive fan**
  Higher efficiency, no belt slip or breakage
- **Wide airflow modulation**
  Integrated VFD
- **Duct & room temperature control**
  No unnecessary heating with integrated temperature controllers
- **Large filter section**
  Lower static pressure loss, limits rain and snow carryover

DURABILITY & MAINTENANCE

- **Pivoting burner**
  Faster annual cleaning
- **Passive floating-door mechanism**
  No actuator to fail, 10-year parts warranty
- **Direct electrode & flame rod access**
  Quicker service
- **Manual service mode**
  Low/high-fire tests
- **Full-size doors with hold-opens**
  Less service time (option)

CONNECTIVITY & DIAGNOSTICS

- **Native BACnet/IP, Modbus TCP & RTU**
  In-depth BMS integration & visibility
- **Built-in Wi-Fi access point**
  On-site diagnostics from any phone or laptop, no proprietary software
- **Cloud Basic, free for 3 years**
  Dashboard, trend logs and alerts flag issues early (e.g., clogged filters)
- **Remote burner & fan troubleshooting**
  Flame and VFD data in the cloud means fewer truck rolls

AMUTECH™ AME Specifications

DIRECT GAS-FIRED MAKE-UP AIR UNIT

Specification[1]	Units	AME-03	AME-05	AME-08	AME-10	AME-15[2]	
AIRFLOW							
Nominal airflow	CFM | L/s	3 000 | 1 416	5 000 | 2 360	8 000 | 3 776	10 000 | 4 719	12 500 | 5 899	15 000 | 7 079
Min. airflow (30% of nominal)	CFM | L/s	900 | 425	1 500 | 708	2 400 | 1 133	3 000 | 1 416	3 750 | 1 770	4 500 | 2 124
Min. airflow with Confort du Chef® [3] (25% of nominal)	CFM | L/s	750 | 354	1 250 | 590	2 000 | 944	2 500 | 1 180	3 125 | 1 475	3 750 | 1 770
Max. external static pressure	in WC | Pa	1.5 | 374	2.5 | 623				
BURNER & HEATING							
Nominal burner capacity	kBtu/h | kW	307 | 90	570 | 167	850 | 249	1 130 | 331	1 420 | 416	1 700 | 498
Burner turndown ratio		30 : 1					
Gas type		Natural gas | Propane					
Min. inlet gas pressure — Natural gas	in WC | kPa	7 | 1.7		8 | 2		10 | 2.5	
Min. inlet gas pressure — Propane	in WC | kPa	9 | 2.2			10 | 2.5		
Max. inlet gas pressure — All gas types	in WC | kPa	14 | 3.5					
Max. temperature rise at max. airflow (ΔT)	°F | °C	105°F | 58°C					
Max. temperature rise (ΔT) at selected airflows	°F @ CFM	82°F @ 3 200 87°F @ 3 000 105°F @ 2 500	88°F @ 5 500 96°F @ 5 000 105°F @ 4 600	90°F @ 8 000 96°F @ 7 500 105°F @ 6 900	88°F @ 11 000 96°F @ 10 000 105°F @ 9 200	80°F @ 15 000 96°F @ 12 500 105°F @ 11 500	93°F @ 15 600 96°F @ 15 000 105°F @ 13 750
	°C @ L/s	46°C @ 1 510 48°C @ 1 416 58°C @ 1 180	49°C @ 2 596 53°C @ 2 360 58°C @ 2 171	50°C @ 3 776 53°C @ 3 540 58°C @ 3 256	49°C @ 5 191 53°C @ 4 720 58°C @ 4 342	44°C @ 7 079 53°C @ 5 899 58°C @ 5 427	52°C @ 7 362 53°C @ 7 079 58°C @ 6 489
Max. temperature rise at min. airflow (ΔT)	°F | °C	120°F | 67°C					
MECHANICAL & ELECTRICAL							
Discharge orientation		Downward (indoor | outdoor), Upward (indoor only), Horizontal (indoor | outdoor)					
Fan drive		Integrated VFD & direct-drive fan					
Electrical supply	VAC / ph / Hz	240 / 1 / 60 208 / 3 / 60 480 / 3 / 60 600 / 3 / 60	208 / 3 / 60 480 / 3 / 60 600 / 3 / 60		208 / 3 / 60[4] 480 / 3 / 60 600 / 3 / 60		
Dimensions (L × D × H)	in mm	122 × 41 × 36.75 3 099 × 1 041 × 933	128 × 51 × 36.75 3 251 × 1 295 × 933	148 × 59 × 45.75 3 759 × 1 499 × 1 162	157 × 61 × 50.75 3 988 × 1 549 × 1 289	196 × 72 × 57.75 4 978 × 1 829 × 1 467	
Weight	lb | kg	510 | 231	600 | 272	830 | 376	940 | 426	1 350 | 612	
Construction & insulation		20 ga. single-wall galvanized steel construction with galvanized finish. Fiberglass lining: 1 in thick, density 1.5 lb/ft³. Thermal resistance: R-4.2.					
Certification		ANSI Z83.4 | CSA 3.7 (2017) — Non-recirculating Direct Gas-fired Heating and Forced Ventilation Appliances for Commercial and Industrial Application					
CONTROLS & CONNECTIVITY							
Control & supervision (temperature setpoint and fan speed)		AMUTECH™ intelligent room thermostat, external I/O signals, BMS or Confort du Chef® (ECOAZUR® controller)					
Heat pump integration		INTELLINOX® AIR heat pumps can be integrated with standalone, BMS-controlled or Confort du Chef® configurations					
BMS interfaces		BACnet/IP, Modbus TCP, Modbus RTU or I/O signals					
Network connectivity		Ethernet, Wi-Fi and Wi-Fi access point					
Cloud services		Cloud Basic package, free for 3 years: dashboard, remote monitoring & configuration, notifications, trend logs					

1 Specifications are subject to change without notice. Refer to the labels affixed to the unit for applicable specifications.

2 AME-15 is available in two configurations, with burner lengths of 30 in and 36 in.

3 Confort du Chef® automatically increases the minimum exhaust and supply airflow when air velocity through the burner approaches its minimum operating limit.

4 The 208 V, 3-phase, 60 Hz supply option is available for models AME-10 and AME-15 only when equipped with a 7½ hp motor.

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