

# EVOLUTION SERIES OE-IE

## AIR-COOLED, HORIZONTAL DISCHARGE CONDENSING UNITS



ecoefficient+



RefPlus® OE and IE series are small commercial air-cooled condensing units that can either be installed outdoors (OE) or indoors (IE). Units can be provided with either a semi-hermetic, hermetic, or scroll compressor and with one, two or three horizontal discharge fans. They are designed for low, extended-medium, medium or high-temperature applications. Built with heavy-gauge galvanized steel, these compact condensing units are ideal for small or medium refrigeration applications. Like all RefPlus® products, these machines can be fully customized to suit any system configuration.

- Offered with either Copeland or Bitzer compressors
- Standard true sub-cooling circuit
- Compact design - durable, lightweight galvanized steel construction
- Fully customizable - extensive list of convenient options



## OUTDOOR MODELS (OEH-OEZ-OES)



### STANDARD FEATURES

- Heavy-gauge galvanized steel base
- Galvanized outdoor protective cabinet (OEH-OEZ-OES)
- Compressors - rubber or spring-mounted, refrigeration or heat pump duty:  
OEH & IEH (Copeland hermetic): 0.2 to 5 HP  
OES & IES (Copeland semi-hermetic): 0.4 to 22 HP  
OES & IES (Bitzer semi-hermetic): 0.6 to 22 HP  
OEZ & IEZ (Copeland scroll): 1.3 to 20 HP
- Adjustable flooding valve (models 0 to 045) / Fixed flooding valve (models higher than 045) (OEH-OEZ-OES)
- Low ambient kit: heated and insulated receiver (OE)
- True sub-cooling circuits integrated into the condenser coil
- Liquid receiver with a liquid isolating valve and fusible plug
- Discharge and suction isolation bracket valves with 1/4" flare access for fast vacuum
- Low speed PSC or high-speed ECM, direct-drive, ball bearings, thermally protected condenser fan motors
- Aluminum fan blade
- Baked-on powder epoxy coated fan guards/motor mounts
- Crankcase heaters (OEH-OEZ-OES)
- Electrical control panel complete with compressor/fan contactor, control transformer, pump-down switch, and terminal block
- Non-adjustable, manual reset, high-pressure switch
- Adjustable, automatic reset, low-pressure switch with capillary tubes
- 240/1/60 control circuit

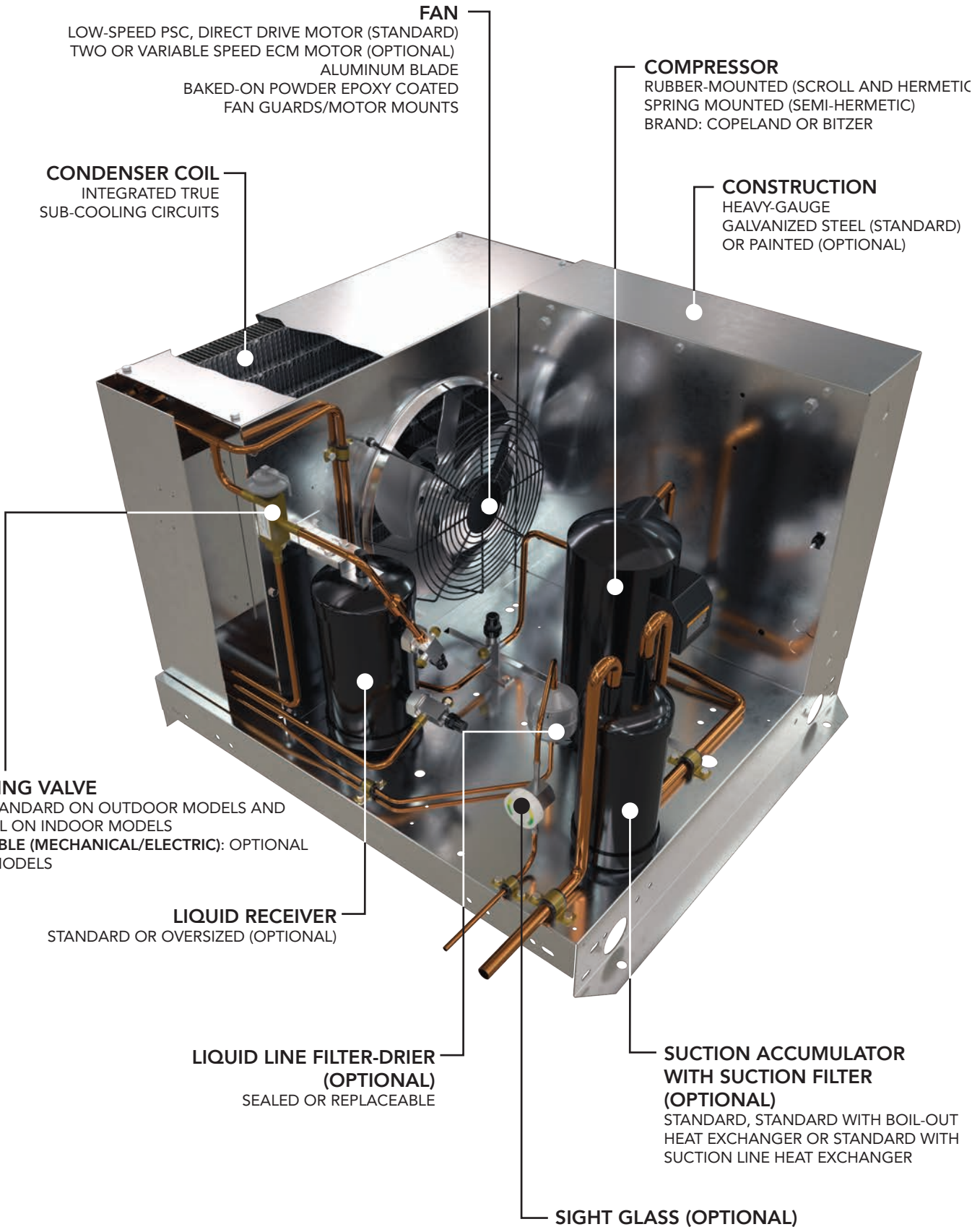
## INDOOR MODELS (IEH-IEZ-IES)



### OPTIONAL FEATURES

- Low ambient kit: insulated and heated receiver (IE)
- Suction accumulator
- Compressor discharge check valve
- Liquid line kit: sealed or replaceable core liquid line filter-drier and sight glass/moisture indicator (installed)
- Liquid line solenoid valve (shipped loose)
- Sealed or replaceable core suction filter
- Discharge and suction bracket valves with 3/8" flare access for ultra-fast vacuum
- Fixed or adjustable flooding valves (IEH-IEZ-IES)
- Compressor discharge thermostat
- Non-fused disconnect switch / fused disconnect switch
- Adjustable dual pressure switches with flexible hoses
- Low pressure bypass
- Mechanical defrost timer: air, electric or hot gas (single point power or pilot duty)
- Contactors and fuses for air or electric defrost evaporators (single point power), includes compressor/heaters interlock
- Hot-gas defrost kit, three-pipe or reverse cycle:
  - Condenser pressure regulator (Danfoss or Parker) factory installed
  - Suction accumulator with boilout, available high-level switch
  - Mechanical time clock or cam timer for multiple circuits
  - Hot-gas defrost line pressure regulator factory installed, available solenoid and ball valves
- Two or variable speed ECM motors
- 120/1/60 or 240/1/60 control circuit
- Mechanical or electronic hot gas bypass

# GENERAL COMPONENTS



**FAN**

LOW-SPEED PSC, DIRECT DRIVE MOTOR (STANDARD)  
TWO OR VARIABLE SPEED ECM MOTOR (OPTIONAL)  
ALUMINUM BLADE  
BAKED-ON POWDER EPOXY COATED  
FAN GUARDS/MOTOR MOUNTS

**COMPRESSOR**

RUBBER-MOUNTED (SCROLL AND HERMETIC)  
SPRING MOUNTED (SEMI-HERMETIC)  
BRAND: COPELAND OR BITZER

**CONDENSER COIL**

INTEGRATED TRUE  
SUB-COOLING CIRCUITS

**CONSTRUCTION**

HEAVY-GAUGE  
GALVANIZED STEEL (STANDARD)  
OR PAINTED (OPTIONAL)

**FLOODING VALVE**

FIXED: STANDARD ON OUTDOOR MODELS AND  
OPTIONAL ON INDOOR MODELS  
ADJUSTABLE (MECHANICAL/ELECTRIC): OPTIONAL  
ON ALL MODELS

**LIQUID RECEIVER**

STANDARD OR OVERSIZED (OPTIONAL)

**LIQUID LINE FILTER-DRIER  
(OPTIONAL)**

SEALED OR REPLACEABLE

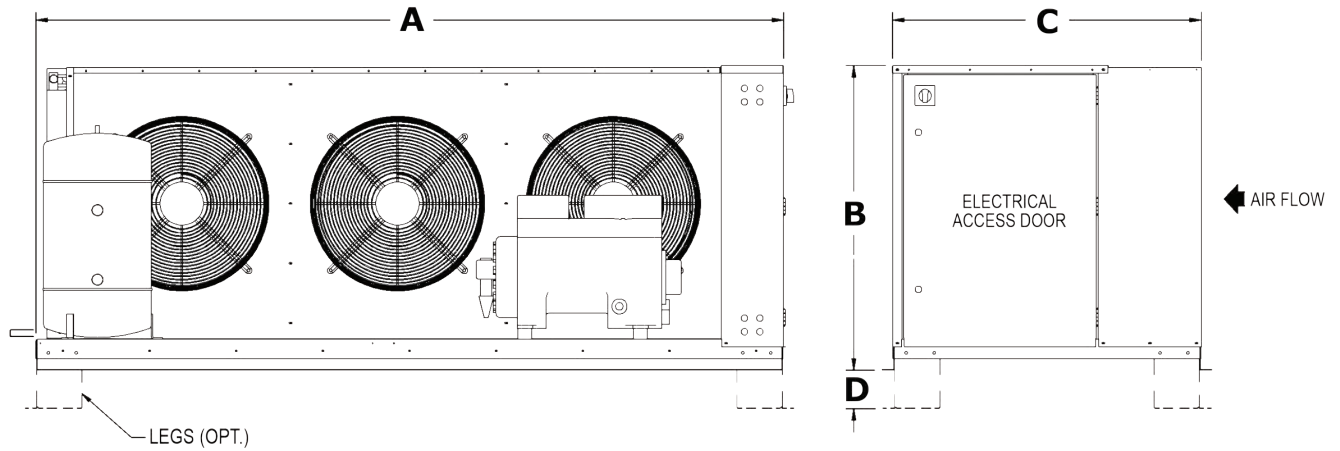
**SUCTION ACCUMULATOR  
WITH SUCTION FILTER  
(OPTIONAL)**

STANDARD, STANDARD WITH BOIL-OUT  
HEAT EXCHANGER OR STANDARD WITH  
SUCTION LINE HEAT EXCHANGER

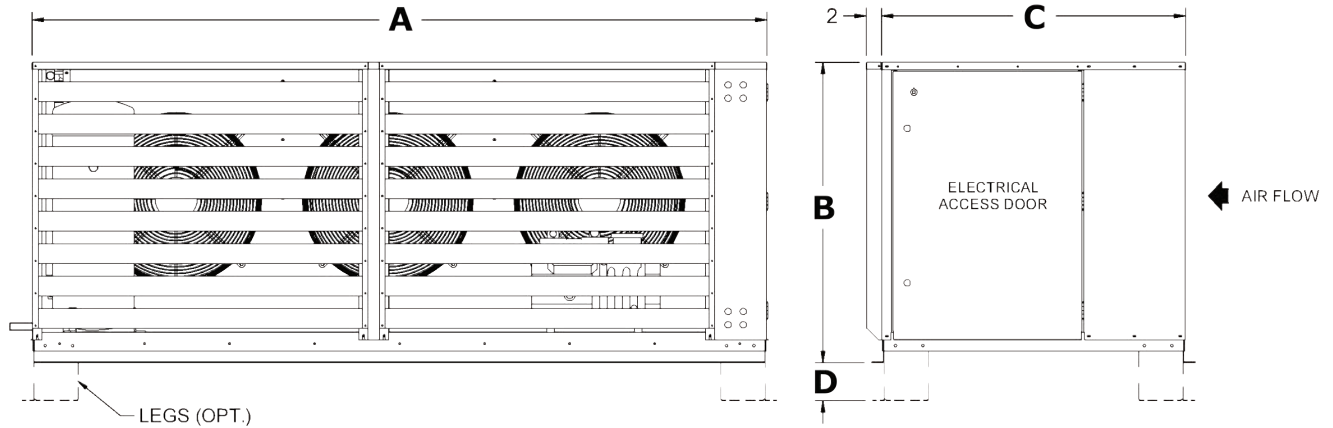
**SIGHT GLASS (OPTIONAL)**

# OVERALL DIMENSIONS

## IEH-IEZ-IES



## OEH-OEZ-OES



	A	B	C	D
004-010	36 1/4"	22 5/8"	30 1/4"	5"
011-025	40 1/4"	28 5/8"	32 1/4"	5"
026-045	52 1/4"	28 5/8"	32 1/4"	5"
046-060	52 1/4"	38 5/8"	32 1/4"	5"
061-099	67 1/4"	39 9/16"	40 1/4"	5"
100-220	97 1/4"	39 9/16"	40 1/4"	5"

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