

Copeland™ AWEF Approved Units

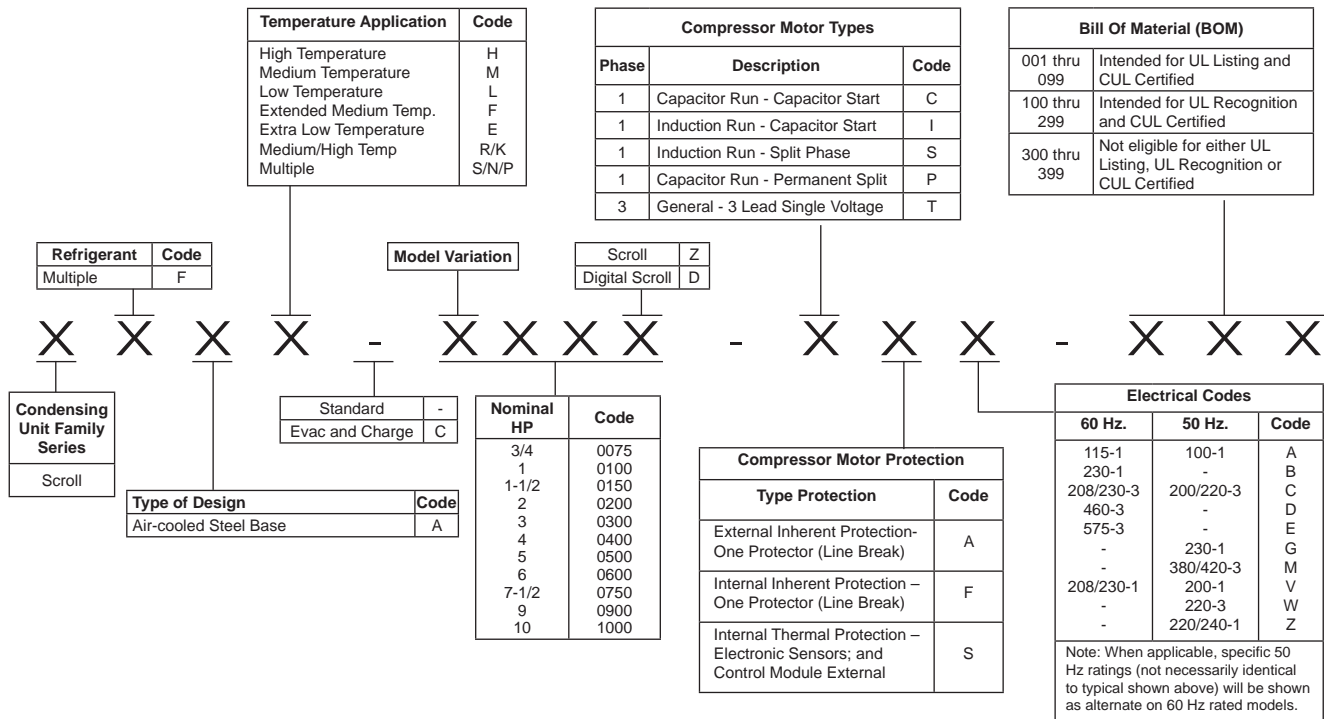
Condensing Units for Walk-In Cooler and Freezer Applications



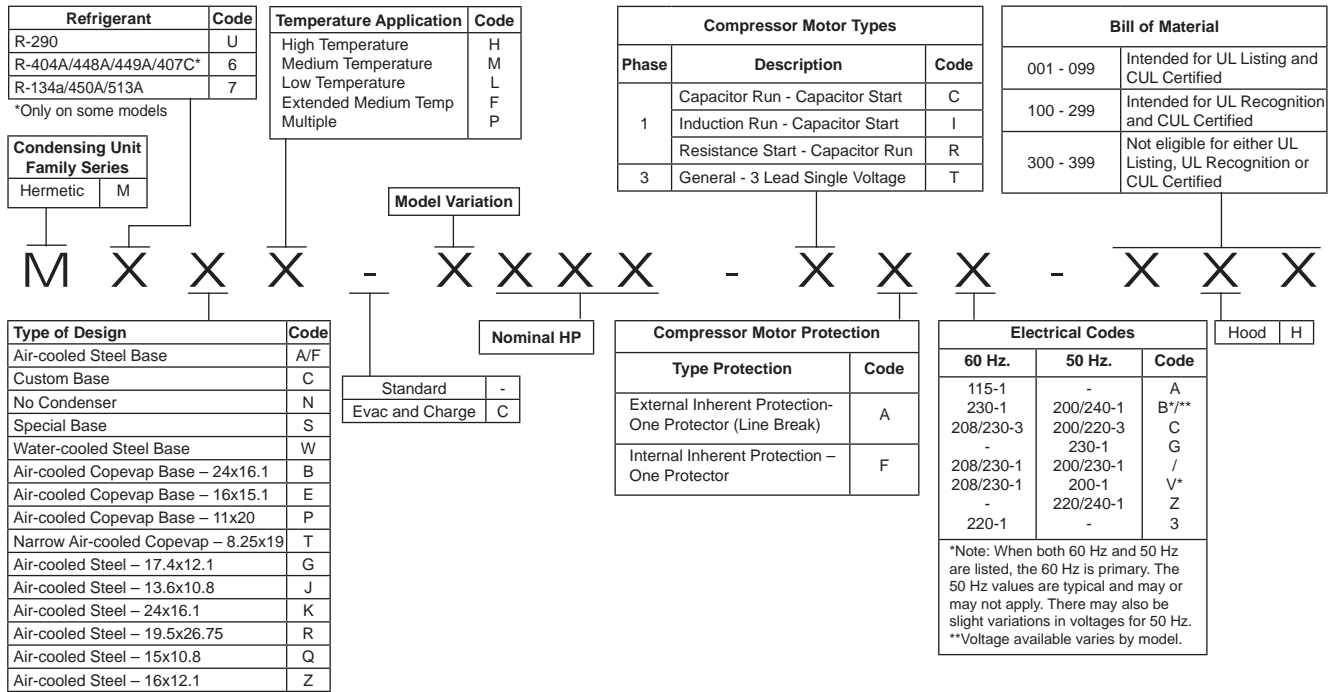
AWEF Scores



Nomenclature • Welded Condensing Units (F-Line and X-Line)



Nomenclature • M-Line Condensing Units



F-Line – Air-cooled

BOM	Options															UL			
	Receiver w/Valve	Suction Valve	Liquid Base Valve	Fan Guard	End Covers	Conduit	Power Cord	Accumulator	Fan Cycling	Pressure Controls	Filter Drier	Moisture Indicator	Solenoid Valve	Crankcase Heater	Head Pressure Control Valve	Water Valve	CoreSense	Listed	Recognized
Air-cooled																			
072	X	X		X	X	X		X*		X	X	X						X	
075	X	X		X	X	X		X^		X	X	X		X	X			X	

* Accumulator available on FFAL units for -072 BOM

^ Accumulator included on dual fan FFAM/FFAP units and all FFAL units for -075 BOM

X-Line – Air-cooled

BOM	Options															UL		
	Receiver w/Valve	Receiver Heater/Insulation	Suction Valve	Liquid Valve	Accumulator (XFAL, XFAP Only)	Oil Separator (Low Temp Fixed and Med Temp Digital)	Pressure Controls (Adjustable Low, Fixed High)	Defrost Control	Filter Drier	Moisture Indicator/Sight Glass	Crankcase Heater	Variable Speed Condenser Fan	Demand Cooling Low Temp (2-6HP) - Enhanced Vapor Injection (EVI)	Low Temp (3/4 -1.5HP) - Med/Ext Med Temp - Liquid Injection	Two-Way Communication	Onboard Diagnostics/Protection	Listed	Recognized
081	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

All information in this catalog is for reference only and subject to change without notice. Please visit Climate.Emerson.com/OPI for a complete listing of all available models and updated information.

AWEF Cooler Scores

Copeland F-Line air-cooled condensing units

If a score is shown in the table below, the following statement applies: *This refrigeration system is designed and certified for use in walk-in cooler applications.*

Model Number	R-404A		R-407A		R-448A / R449A	
	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
FFAM-A08Z-CFV-072	5.61		5.61		5.61	
FFAM-A08Z-CFV-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAM-A08Z-TFC-072	5.61		5.61		5.61	
FFAM-A08Z-TFC-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAM-A10Z-CFV-072	5.61		5.61		5.61	
FFAM-A10Z-CFV-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAM-A10Z-TFC-072	5.61		5.61		5.61	
FFAM-A10Z-TFC-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAM-A12Z-CFV-072	5.61		5.61		5.61	
FFAM-A12Z-CFV-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAM-A12Z-TFC-072	5.61		5.61		5.61	
FFAM-A12Z-TFC-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A15Z-CFV-072	5.61		5.61		5.61	
FFAP-A15Z-CFV-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A15Z-TFC-072	5.61		5.61		5.61	
FFAP-A15Z-TFC-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A15Z-TFD-072	5.61		5.61		5.61	
FFAP-A15Z-TFD-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A17Z-CFV-072	5.61		5.61		5.61	
FFAP-A17Z-CFV-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A17Z-TFC-072	5.61		5.61		5.61	
FFAP-A17Z-TFC-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A17Z-TFD-072	5.61		5.61		5.61	
FFAP-A17Z-TFD-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A20Z-CFV-072	5.61		5.61		5.61	
FFAP-A20Z-CFV-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A20Z-TFC-072	5.61		5.61		5.61	
FFAP-A20Z-TFC-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A20Z-TFD-072	5.61		5.61		5.61	
FFAP-A20Z-TFD-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A22Z-CFV-072	5.61		5.61		5.61	
FFAP-A22Z-CFV-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A22Z-TFC-072	5.61		5.61		5.61	
FFAP-A22Z-TFC-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A22Z-TFD-072	5.61		5.61		5.61	
FFAP-A22Z-TFD-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A30Z-CFV-072	5.61		5.61		5.61	
FFAP-A30Z-CFV-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A30Z-TFC-072	5.61		5.61		5.61	
FFAP-A30Z-TFC-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A30Z-TFD-072	5.61		5.61		5.61	
FFAP-A30Z-TFD-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A32Z-CFV-072			5.61		5.61	
FFAP-A32Z-CFV-075		7.6	5.61	7.6	5.61	7.6
FFAP-A32Z-TFC-072			5.61		5.61	
FFAP-A32Z-TFC-075		7.6	5.61	7.6	5.61	7.6
FFAP-A32Z-TFD-072			5.61		5.61	
FFAP-A32Z-TFD-075		7.6	5.61	7.6	5.61	7.6
FFAP-A40Z-CFV-072	5.61		5.61		5.61	
FFAP-A40Z-CFV-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A40Z-TFC-072	5.61		5.61		5.61	
FFAP-A40Z-TFC-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A40Z-TFD-072	5.61		5.61		5.61	
FFAP-A40Z-TFD-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A42Z-CFV-072	5.61		5.61		5.61	
FFAP-A42Z-CFV-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A42Z-TFC-072	5.61		5.61		5.61	
FFAP-A42Z-TFC-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A42Z-TFD-072	5.61		5.61		5.61	
FFAP-A42Z-TFD-075	5.61	7.6	5.61	7.6	5.61	7.6
FFAP-A50Z-CFV-072						
FFAP-A50Z-CFV-075						
FFAP-A50Z-TFC-072						
FFAP-A50Z-TFC-075						
FFAP-A50Z-TFD-072						
FFAP-A50Z-TFD-075						

In Development

AWEF Cooler Scores

Copeland X-Line air-cooled condensing units

If a score is shown in the table below, the following statement applies: *This refrigeration system is designed and certified for use in walk-in cooler applications.*

Model Number	R-404A		R-407A		R-448A / R449A	
	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
XFAM-008Z-CFV-081		7.6		7.6		7.6
XFAM-008Z-TFC-081		7.6		7.6		7.6
XFAM-010Z-CFV-081		7.6		7.6		7.6
XFAM-010Z-TFC-081		7.6		7.6		7.6
XFAM-012Z-CFV-081		7.6		7.6		7.6
XFAM-012Z-TFC-081		7.6		7.6		7.6
XFAM-015Z-CFV-081		7.6		7.6		7.6
XFAM-015Z-TFC-081		7.6		7.6		7.6
XFAM-017Z-CFV-081		7.6		7.6		7.6
XFAM-017Z-TFC-081		7.6		7.6		7.6
XFAM-020Z-CFV-081		7.6		7.6		7.6
XFAM-020Z-TFC-081		7.6		7.6		7.6
XFAM-022Z-CFV-081		7.6		7.6		7.6
XFAM-022Z-TFC-081		7.6		7.6		7.6
XFAM-025Z-CFV-081		7.6		7.6		7.6
XFAM-025Z-TFC-081		7.6		7.6		7.6
XFAM-030Z-CFV-081		7.6		7.6		7.6
XFAM-030Z-TFC-081		7.6		7.6		7.6
XFAM-033Z-CFV-081		7.6		7.6		7.6
XFAM-033Z-TFC-081		7.6		7.6		7.6
XFAM-037Z-CFV-081		7.6		7.6		7.6
XFAM-037Z-TFC-081		7.6		7.6		7.6
XFAM-045Z-CFV-081		7.6		7.6		7.6
XFAM-045Z-TFC-081		7.6		7.6		7.6
XFAM-050Z-CFV-081		7.6		7.6		7.6
XFAM-050Z-TFC-081		7.6		7.6		7.6
XFAM-060Z-TFC-081		7.6		7.6		7.6
XFAP-015Z-CFV-081		7.6		7.6		7.6
XFAP-015Z-TFC-081		7.6		7.6		7.6
XFAP-017Z-CFV-081		7.6		7.6		7.6
XFAP-017Z-TFC-081		7.6		7.6		7.6
XFAP-020Z-CFV-081		7.6		7.6		7.6
XFAP-020Z-TFC-081		7.6		7.6		7.6
XFAP-022Z-CFV-081		7.6		7.6		7.6
XFAP-022Z-TFC-081		7.6		7.6		7.6
XFAP-025Z-CFV-081		7.6		7.6		7.6
XFAP-025Z-TFC-081		7.6		7.6		7.6
XFAP-030Z-CFV-081		7.6		7.6		7.6
XFAP-030Z-TFC-081		7.6		7.6		7.6
XFAP-033Z-CFV-081		7.6		7.6		7.6
XFAP-033Z-TFC-081		7.6		7.6		7.6
XFAP-037Z-CFV-081		7.6		7.6		7.6
XFAP-037Z-TFC-081		7.6		7.6		7.6
XFAP-045Z-CFV-081		7.6		7.6		7.6
XFAP-045Z-TFC-081		7.6		7.6		7.6
XFAP-050Z-CFV-081		7.6		7.6		7.6
XFAP-050Z-TFC-081		7.6		7.6		7.6
XFAP-060Z-TFC-081		7.6		7.6		7.6
Digital						
XFAM-030D-CFV-081		7.6		7.6		7.6
XFAM-030D-TFC-081		7.6		7.6		7.6
XFAM-040D-TFC-081		7.6		7.6		7.6
XFAM-050D-CFV-081		7.6		7.6		7.6
XFAM-050D-TFC-081		7.6		7.6		7.6
XFAM-060D-TFC-081		7.6		7.6		7.6

AWEF Freezer Scores

Copeland F-Line air-cooled condensing units

If a score is shown in the table below, the following statement applies: *This refrigeration system is designed and certified for use in walk-in freezer applications.*

Model Number	R-404A		R-407A		R-448A		R-448A	
	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
FFAL-A10Z-CFV-072	2.07		2.04		2.06		2.05	
FFAL-A10Z-CFV-075	2.07	2.91	2.04	2.89	2.06	2.9	2.05	2.90
FFAL-A10Z-TFC-072	2.07		2.04		2.06		2.05	
FFAL-A10Z-TFC-075	2.07	2.91	2.04	2.89	2.06	2.9	2.05	2.90
FFAL-A13Z-CFV-072	2.15		2.11		2.13		2.13	
FFAL-A13Z-CFV-075	2.15	2.96	2.11	2.94	2.13	2.95	2.13	2.95
FFAL-A13Z-TFC-072	2.16		2.11		2.13		2.13	
FFAL-A13Z-TFC-075	2.16	2.96	2.11	2.94	2.13	2.95	2.13	2.95
FFAL-A14Z-CFV-072	2.22		2.15		2.17		2.18	
FFAL-A14Z-CFV-075	2.22	3.01	2.15	2.97	2.17	2.98	2.18	2.98
FFAL-A14Z-TFC-072	2.22		2.15		2.17		2.17	
FFAL-A14Z-TFC-075	2.22	3.01	2.15	2.97	2.17	2.98	2.17	2.98
FFAL-A14Z-TFD-072	2.22		2.15		2.17		2.17	
FFAL-A14Z-TFD-075	2.22	3.01	2.15	2.97	2.17	2.98	2.17	2.98
FFAL-A15Z-CFV-072	2.37		2.29		2.30		2.30	
FFAL-A15Z-CFV-075	2.37	3.11	2.29	3.07	2.30	3.07	2.30	3.07
FFAL-A15Z-TFC-072	2.36		2.29		2.30		2.30	
FFAL-A15Z-TFC-075	2.36	3.11	2.29	3.07	2.30	3.07	2.30	3.07
FFAL-A15Z-TFD-072	2.36		2.29		2.30		2.30	
FFAL-A15Z-TFD-075	2.36	3.11	2.29	3.07	2.30	3.07	2.30	3.07
FFAL-A17Z-CFV-072	2.40		2.37		2.37		2.37	
FFAL-A17Z-CFV-075	2.40	3.15	2.37	3.12	2.37	3.12	2.37	3.12
FFAL-A17Z-TFC-072	2.40		2.37		2.37		2.37	
FFAL-A17Z-TFC-075	2.40	3.15	2.37	3.12	2.37	3.12	2.37	3.12
FFAL-A22Z-CFV-072	2.40		2.40		2.40		2.40	
FFAL-A22Z-CFV-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A22Z-TFC-072	2.40		2.40		2.40		2.40	
FFAL-A22Z-TFC-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A22Z-TFD-072	2.40		2.40		2.40		2.40	
FFAL-A22Z-TFD-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A26Z-CFV-072	2.40		2.40		2.40		2.40	
FFAL-A26Z-CFV-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A26Z-TFC-072	2.40		2.40		2.40		2.40	
FFAL-A26Z-TFC-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A26Z-TFD-072	2.40		2.40		2.40		2.40	
FFAL-A26Z-TFD-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A30Z-CFV-072	2.40		2.40		2.40		2.40	
FFAL-A30Z-CFV-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A30Z-TFC-072	2.40		2.40		2.40		2.40	
FFAL-A30Z-TFC-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A30Z-TFD-072	2.40		2.40		2.40		2.40	
FFAL-A30Z-TFD-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A40Z-CFV-072	2.40		2.40		2.40		2.40	
FFAL-A40Z-CFV-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A40Z-TFC-072	2.40		2.40		2.40		2.40	
FFAL-A40Z-TFC-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A40Z-TFD-072	2.40		2.40		2.40		2.40	
FFAL-A40Z-TFD-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A50Z-TFC-072	2.40		2.40		2.40		2.40	
FFAL-A50Z-TFC-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15
FFAL-A50Z-TFD-072	2.40		2.40		2.40		2.40	
FFAL-A50Z-TFD-075	2.40	3.15	2.40	3.15	2.40	3.15	2.40	3.15

AWEF Freezer Scores

Copeland X-Line air-cooled condensing units

If a score is shown in the table below, the following statement applies: *This refrigeration system is designed and certified for use in walk-in freezer applications.*

Model Number	R-404A		R-407A		R-448A / R449A	
	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
XFAL-008Z-CFV-081		2.92		2.89		2.9
XFAL-008Z-TFC-081		2.92		2.89		2.9
XFAL-009Z-CFV-081		2.98		2.94		2.95
XFAL-009Z-TFC-081		2.98		2.94		2.95
XFAL-010Z-CFV-081		3.04		2.98		2.99
XFAL-010Z-TFC-081		3.04		2.98		2.99
XFAL-012Z-CFV-081		3.15		3.13		3.14
XFAL-012Z-TFC-081		3.15		3.13		3.14
XFAL-020Z-CFV-081		3.15		3.15		3.15
XFAL-020Z-TFC-081		3.15		3.15		3.15
XFAL-030Z-TFC-081		3.15		3.15		3.15
XFAL-035Z-CFV-081		3.15		3.15		3.15
XFAL-035Z-TFC-081		3.15		3.15		3.15
XFAL-040Z-CFV-081		3.15		3.15		3.15
XFAL-040Z-TFC-081		3.15		3.15		3.15
XFAL-050Z-TFC-081		3.15		3.15		3.15
XFAL-051Z-CFV-081		3.15		3.15		3.15
XFAL-060Z-TFC-081		3.15		3.15		3.15

About Emerson

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