



## ultraGuard Corrosion Coating

### Description

ultraGUARD is iAIRE's corrosion resistant coating. iAIRE can apply this coating to a customer supplied unit, or to one of our units that iAIRE makes like Climate Saver or ultraDRY. This coating can be added to the entire unit, or to any one of the coils that are in the unit. ultraGUARD is most often added in coastal areas to help prevent the corrosion that normally occurs around salt water. This coating is also added in other applications such as wastewater treatment plants to help extend the life of either the coils or the entire unit in severe duty environments.

UNIT	PART #		NOTES
Condenser Coils	.5-2.5 ton	UG-ES-A	
	3-6 ton	UG-AS-A	
	7-12.5 ton	UG-BS-A	
	15-25 ton	UG-CS-A	
	30-50 ton	UG-DS-A	
Evaporator Coils	.5-2.5 ton	UG-ES-B	
	3-6 ton	UG-AS-B	
	7-12.5 ton	UG-BS-B	
	15-25 ton	UG-CS-B	
	30-50 ton	UG-DS-B	
Reheat Coils	.5-2.5 ton	UG-ES-C	or loose coils up to 250 sq-in
	3-6 ton	UG-AS-C	or loose coils up to 500 sq-in
	7-12.5 ton	UG-BS-C	or loose coils up to 1,200 sq-in
	15-25 ton	UG-CS-C	or loose coils up to 1,800 sq-in
	30-50 ton	UG-DS-C	or loose coils up to 2,200 sq-in
Interior of Unit	2-6 ton	UG-AS-D	
	7-12.5 ton	UG-BS-D	
	15-25 ton	UG-CS-D	
	30-50 ton	UG-DS-D	
Exterior of Unit	2-6 ton	UG-AS-E	
	7-12.5 ton	UG-BS-E	
	15-25 ton	UG-CS-E	
	30-50 ton	UG-DS-E	
Complete ultraDRY	2-6 ton	UG-AS-ABCDE	
	7-12.5 ton	UG-BS-ABCDE	
	15-25 ton	UG-CS-ABCDE	
	30-50 ton	UG-DS-ABCDE	
Complete Package Unit	2-6 ton	UG-AS-ABDE	
	7-12.5 ton	UG-BS-ABDE	
	15-25 ton	UG-CS-ABDE	
	30-50 ton	UG-DS-ABDE	



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## HVAC Armor Condenser &/or Evaporator Coil Specification Sheet

1. The condenser and/or evaporator coil shall be coated with HVAC Armor 55610DX by a certified and licensed applicator.
2. Shall have a flexible polyurethane coating with 65% aluminum pigmentation for thermal conductivity, uniformly applied to all coil surfaces without metal bridging between fins.
3. Coating process shall ensure complete coil encapsulation to create an inert barrier between the aluminum fin and copper tube.
4. Polyurethane barrier shall prevent galvanic action between dissimilar metals.
5. Color shall be metallic blue with gloss -60° of 65%-90% per ASTM ID523-89.
6. Uniform dry film thickness should be from a minimum 1.0 to a maximum of 1.5 mil on all surface areas including fin edges and headers.
7. Superior hardness characteristics of 2H per ASTM D3363-92A and cross hatch adhesion of 4B-5B per ASTM D4541.
8. Product manufacturer must be able to document the successful completion of accelerated product testing of a minimum 10,000 hours in both salt spray ISO 12994-6/ISO 9227 (ASTM B117) and acid salt spray tests (ASTM G85).
9. The service provider shall be able to offer a 5 year conditional warranty for the coating applied on finned-tube coils.
10. The product application process shall include a high pressure deep cleaning, followed by HVLP spray application of the aluminum-impregnated polyurethane topcoat.
11. The coating shall provide inherent protection against ultraviolet radiation and have an ability to resist temperatures up to 302°F (150C).
12. Endplates (tubesheet) and u-bends shall also be treated to ensure copper headers are also protected.

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HVAC Armor offers state-of-the-art corrosion protection coatings and services that save energy, enhance performance, and rejuvenate HVAC equipment. HVAC Armor is part of ECM Holding Group, a collection of conservation technology firms serving North America's leading ESCOs and corporate clients.

For more information, please visit [www.hvacarmor.com](http://www.hvacarmor.com), or call 920.230.4585.

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