

Uboldo, January 23th 2013

Subject: LU-VE products' compliance to the ErP Directive.

The 2009/125/EC (ErP, energy-related products) Directive of the European Parliament and of the Council of the European Union applies to fans with input power between 125 W and 500 kW. All fans installed on LU-VE products comply with this regulation and have the CE mark as they are manufactured in accordance with the European Directives in force.

This Directive concerning energy-related products became effective from the start of 2013 and is an opportunity to further speed up the constant innovation process of our products and the consequent efficiency of any refrigeration and air-conditioning system.

As a practical consequence, most of the product range of air-cooled condensers and dry coolers will be fitted with new more efficient AC fans which comply with the ErP Directive without significant impact on the performance levels of the products. In a few cases the alternative will be provided by electronic fans which at the current moment constitute the most efficient and environmentally-friendly solution.

In the case of commercial dry coolers the ErP Directive offered the opportunity to significantly improve the performance of the whole range.

The ErP Directive does not apply to products used in potentially explosive atmospheres, extreme temperature applications and on already-existing installed plants.

Spare parts for non-ErP fans can be supplied until 31/12/2014.

Please find attached to this document a description table which clarifies how the ErP Directive is applied to the LU-VE product range.

For any further information please do not hesitate to contact us.

LU-VE SpA

Condenser range modification as result of new fan directive ErP 2013:

Range	Power supply	New solution	Condenser capacity		Power consumption		Noise level [dB(A)]	
			Delta	Star	Delta	Star	Delta	Star
SAV5R - EAV5R 8P	400V-3PH-50Hz	New fan with higher efficiency	0	-3%	-7,7%	-6,0%	0	0
SAV6S - EAV6S 8P	230V-1PH-50Hz	New fan with higher efficiency	-7,5%		-27,0%		0	
SAV6R - EAV6R 8PS	400V-3PH-50Hz	New fan with new performances	-18,6%	0,1%	-41,2%	-22,7%	-4	0
	230V-1PH-50Hz	Only possibility EC fan						
SAV7S 8P	230V-1PH-50Hz	Only possibility EC fan						
SAV8R - EAV8R - XDHVR - EHVDR 12P	400V-3PH-50Hz	Only possibility EC fan						
EAV9U - XAV9U - XDHVU - EHVDU 12P	400V-3PH-50Hz	New fan with higher efficiency	-1,1%	4,2%	-26,3%	-16,7%	-1	1

Dry cooler SAL 500 - performance variation compared to previous SHL 500 range

SAL 500	Dry cooler capacity		Power consumption		Noise level [dB(A)]	
	Delta	Star	Delta	Star	Delta	Star
SAL5N 4P	0,0%	0,0%	-11,5%	-11,5%	-2	-2
SAL5S 6P	0,0%	-5,0%	-21,9%	-18,2%	-2	-4
SAL5R 8P	0,0%	0,0%	-14,3%	-5,9%	-1	-2

Dry cooler SAL 630 - performance variation compared to previous SHL 630 range

SAL 630	Dry cooler capacity		Power consumption		Noise level [dB(A)]	
	Delta	Star	Delta	Star	Delta	Star
SAL6N 6P	6,7%	8,2%	-3,5%	2,7%	-2	-1
SAL6S 8P	8,2%	18,7%	7,1%	5,6%	-2	-3
SAL6R 12P	6,7%	0,0%	-16,7%	-10,8%	-3	-3

Modification to large dry cooler range (fan ø 800, 910, 1000) as result of new ErP directive:

Range	New solution	Dry cooler capacity		Power consumption		Noise level [dB(A)]	
		Delta	Star	Delta	Star	Delta	Star
SAL8R - EAL8R - XDHLR - EHLDR 12P	Only possibility EC fan						
EAL9U - XAL9U - XDHLU - EHLDU - XXLDU 12P	New fan with higher efficiency	-1,1%	4,2%	-26,3%	-16,7%	-1	1

All other ranges not mentioned in this letter remain unchanged.