ErP ready

TROX automatically checks energy efficiency according to ecodesign directive

TROX air handling units of Type X-CUBE are configured to individual customer requirements with a dedicated configuration software. This software automatically considers the new energy efficiency requirements for all X-CUBE air handling units and hence ensures their correct configuration.
All X-CUBE air handling units that are produced and placed on markets of the European Union from 1 January 2016 onwards meet the new requirements.

ErP-Stage			January 2016	January 2018
Heat recovery system (HRS) BVU with a regulator device			demanded	demanded
HRS BVU heat recovery effiency η **[%]**		Run-around coil system	63	68
		Plate heat exchangers, rotary heat exchanger, miscellaneous	67	73
Filter differential pressure monitoring			–	demanded
Fan speed regulation			demanded	demanded
Fan efficiencies UVU η_{sys} **[%]**		$P_{sys} \leq 30$ kW	$6,2 \times \ln(P_{sys}) +35$	$6,2 \times \ln(P_{sys}) +42$
		$P_{sys} > 30$ kW	56,1	63,1
Internal SFP-Value reference configuration [W/(m³/s)]	BVU			
		Run-around coil system		
		$q < 2$ m³/s	$1700+E–300 \times q/2–F$	$1600+E–300 \times q/2–F$
		$q \geq 2$ m³/s	$1400+E–F$	$1300+E–F$
		Plate heat exchangers, rotary heat exchanger, miscellaneous		
		$q < 2$ m³/s	$1200+E–300 \times q/2–F$	$1100+E–300 \times q/2–F$
		$q \geq 2$ m³/s	$900+E–F$	$800+E–F$
	UVU		250	230
HRS-Efficiency bonus E [W/(m³/s)]		Run-around coil system	$(\eta–0,63) \times 3000$	$(\eta–0,68) \times 3000$
		Plate heat exchangers, rotary heat exchanger, miscellaneous	$(\eta–0,67) \times 3000$	$(\eta–0,73) \times 3000$
Filter correction value F [W/(m³/s)]		Reference configuration	0	0
		Filter M5 is missing	160	150
		Filter F7 is missing	200	190
		Filters M5 + F7 are missing	360	340