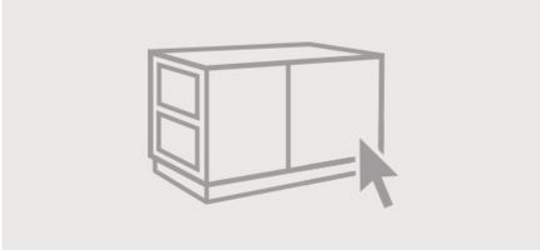


CENTRALE DE TRAITEMENT D'AIR

AHU ONLINE CONFIGURATOR



AHU CONFIGURATION IN NO TIME AT ALL

No expert knowledge required:

- Configure TROX X-CUBE units
- Calculate energy and other consumption values
- Calculate life cycle costs

TROX AUTOMATICALLY CHECKS ENERGY EFFICIENCY ACCORDING TO ECODESIGN DIRECTIVE

ErP-Stage		January 2016	January 2018	
Heat recovery system (HRS) BVU with a regulator device		demande	demande	
HRS BVU heat recovery efficiency η [%]	Run-around coil system	63	65	
	Plate heat exchangers, rotary heat exchanger, miscellaneous	67	73	
Filter differential pressure monitoring		-	demande	
Fan speed regulation		demande	demande	
Fan efficiencies UVU η_{fan} [%]	$P_{fan} \leq 30$ kW	$6,2 \times \ln(P_{fan}) + 35$	$6,2 \times \ln(P_{fan}) + 42$	
	$P_{fan} > 30$ kW	56,1	63,1	
Internal SFP-Value reference configuration [W/(m ³ /s)]	BVU			
	Run-around coil system	$q < 2$ m ³ /s	1700+E-300 x q ² -F	1600+E-300 x q ² -F
		$q \geq 2$ m ³ /s	1400+E-F	1300+E-F
	Plate heat exchangers, rotary heat exchanger, miscellaneous	$q < 2$ m ³ /s	1200+E-300 x q ² -F	1100+E-300 x q ² -F
		$q \geq 2$ m ³ /s	900+E-F	800+E-F
UVU		250	230	
HRS-Efficiency bonus E [W/(m ³ /s)]	Run-around coil system	$(\eta - 0,63) \times 3000$	$(\eta - 0,65) \times 3000$	
	Plate heat exchangers, rotary heat exchanger, miscellaneous	$(\eta - 0,67) \times 3000$	$(\eta - 0,73) \times 3000$	
Filter correction value F [W/(m ³ /s)]	Reference configuration	0	0	
	Filter M5 is missing	160	150	
	Filter F7 is missing	200	190	
	Filters M5 + F7 are missing	360	340	

With the adoption of the Kyoto Protocol, the European Union has committed itself to reducing CO₂ emissions by at least 20 percent by 2020. In order to reach this goal, the EU adopted already in 2005 the Energy-Using Products Directive. The Energy-Related Products Directive 2009/125/EG, colloquially called 'ecodesign directive', defines minimum requirements for many energy-related products. Within the European Union, air handling units have to meet new energy efficiency

requirements from 1 January 2016 onwards. The next step after that will become effective two years later, on 1 January 2018.

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.

Please find attached the table ErP - Efficiency Requirements as of 2016

GUIDE DE CONCEPTION X-CUBE



Avec l'introduction de la centrale X-CUBE innovante, TROX établit le point de référence en matière de centrales de traitement d'air, étant donné que la centrale X-CUBE offre des niveaux optimaux en termes de qualité, d'efficacité énergétique, de flexibilité de configuration, de sécurité de fonctionnement et d'hygiène. Les mêmes niveaux élevés s'appliquent à tous les types de produits et à l'ensemble de la gamme de produits.

Comme aide, TROX a élaboré un guide de conception pour la série X-CUBE.

TROX SERVICES



RODUIT A-Z

prenez rapidement et
cilement.



TROX EASY PRODUCT FINDER

- Rapide. Fiable. Innovant.



TOUR DE COMPETENCE

une mise en scène
passionnante