ISO 5222-1:2023-08 (E)

Heat recovery ventilators and energy recovery ventilators - Testing and calculating methods for seasonal performance factor - Part 1: Sensible heating recovery seasonal performance factors of heat recovery ventilators (HRV)

Co	ntent	S		Page
Fore	word			iv
1	Scop	e		1
2	Normative references			
3	Terms and definitions			
4 5	Symbols and abbreviated terms			
	Tests 5.1 General requirements			
	5.1 General requirements 5.2 Test conditions			
			methods	
	5.5	5.3.1		
		5.3.2		
		5.3.3		
		5.3.4		
		5.3.5	Measurement of power input of heat recovery ventilator with bypass	
		5.5.5	ventilation function	
		5.3.6	Determination of the frosting temperature by test	
_	6.1			
6	Calculations (1) Gross consible heating recovery effectiveness (2)			
	6.1 6.2	Consi	oss sensible heating recovery effectiveness ($arepsilon_{ m sh}$)nsible heating coefficient of energy	
	0.2	6.2.1		0
		6.2.2		0
	6.3		lation of seasonal performance factor of sensible heating recovery $(F_{\rm sh})$	7
	0.5	6.3.1		7
		6.3.2		/
		0.3.2	temperature	g
		6.3.3	Power input characteristics of sensible heating recovery against outdoor	O
		0.5.5	temperature	Q
		6.3.4	Outdoor temperature bin distribution for heating	
		6.3.5	Calculation of seasonal sensible heating recovery capacity $(E_{\rm sh})$	
		6.3.6	Calculation of seasonal sensible heating recovery power input $(P_{\text{in,E}})$	10
		6.3.7	Calculation of seasonal performance factor for sensible heating recovery	10
		0.017	$(F_{\rm sh})$	11
7	Toct	roport		
	Test report			
	_		ive) The schematic diagram of HRV heating (H) operation	
	•		ive) The default outdoor temperature bin distribution for heating	
Ann	ex C (no	ormative	e) Method of determination of the temperature $T_{ m F,0}$	15
Ann	ex D (in	formati	ive) Calculating method for seasonal performance factor when setting a blication heating load	16
Δnn			e) Calculation of the bypass outdoor temperature	
			ve) Report template	
Bibli	iograpl	1V		22