



SHR

MP3nergy SHR

Counterflow Heat Recovery Units Air flow from 500 to 15000 m³/h





SHR heat recovery units

High Efficency double deck Heat Recovery unit for applications where high airflows are needed. Available with counterflow or enthalpic wheel heat exchanger.

Contruction – Frame made from extruded Anticorodal63 aluminium bars, sandwich panels 48mm thick, galvanized steel inner skin, prepainted steel sheet external. 60mm panels available as option.

Heat recovery – Eurovent certified. SHRC - High efficiency counterflow heat exchanger SHRR – High efficiency enthalpic thermal wheel.

Filters - Fresh air intake: standard compact filter, ePM10 50% (G4 EN 779) efficiency and post filtration ePM1 55% (F7 EN 779). Return air intake: ePM10 55% (M5 EN 779) efficiency.

Fans – EC motors plug fans

Control – the units are plug and play, factory equipped with: motorized bypass section with internal temperature sensors, automatic free cooling, automatic defrost, management of 0-10V actuator for water heaters and coolers, management of electric heaters. Pressure sensors for filter monitoring. humidifiers control available,

Electric cabinet with control panel onboard included. Remote control panel available as optional.

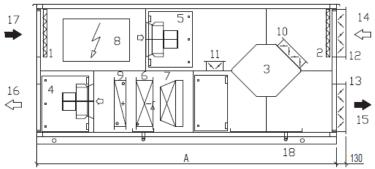
Sanitization - All the models can be equipped as option with air ionization system MP3 oXy, tested in Padua University and approved by TUV Hessen.

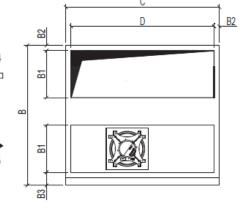


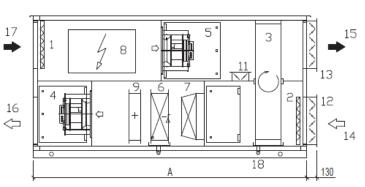
		SHRC- SHRR-	a-	b-	C-	d
а	Size					
15 08 10 15 20 32 40 50	400 m³/h 750 m³/h 1000 m³/h 1500 m³/h 2000 m³/h 3800 m³/h 4700 m³/h					
b	Control				1	
Е	Evolution					
с	Flow configu					
1	Configuration :	1				
2	Configuration 2	2				
d	Heat recover	ry efficien	су			
8	high efficiency	heat recov	ery			-

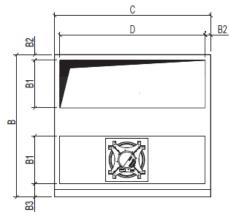












		KEY		
1	Return air filter		10	By-pass damper
2	Fresh air pre-filter		11	Recirculation damper (optional)
3	Heat recovery		12	Fresh air damper (optional)
4	Supply fan		13	Exhaust air damper (optional)
5	Exhaust fan		14	Fresh air
6	4-rows coil (optional)		15	Exhaust air
7	Supply air filter		16	Supply air
8	Built-in electric cabinet		17	Return air
9	2-rows coil (optional)		18	Drain 1''M

			SHRC – 48mm panels – SIZES:							S	HRC –	60mm	panels	– SIZE	S:		
		15	35	55	70	90	100	130	150	15	35	55	70	90	100	130	150
Α	mm	3350	3650	3900	3900	4350	4350	4500	4800	3370	3670	3920	3920	4370	4370	4520	4820
В	mm	1470	1820	1820	1820	2100	2100	2100	2200	1490	1840	1840	1840	2120	2120	2120	2220
B1	mm	410	510	610	610	610	610	610	610	410	510	610	610	610	610	610	610
B2	mm	70	70	70	70	70	70	70	60	60	60	60	60	60	60	60	60
B3	mm	170	170	170	170	170	170	170	160	160	160	160	160	160	160	160	160
С	mm	1210	1510	2000	2000	2190	2190	2320	2320	1230	1530	2020	2020	2210	2210	2340	2340
D	mm	1070	1370	1860	1860	2050	2050	2180	2180	1070	1370	1860	1860	2050	2050	2180	2280
Weight	kg	750	1020	1500	1580	1900	2000	2240	2500	760	1030	1510	1590	1920	2020	2260	2520

			SHRR – 48mm panels – SIZES:					SHRR – 60mm panels – SIZES:							
		15	35	55	70	90	130	150	15	35	55	70	90	130	150
Α	mm	3350	3650	3900	3900	4350	4500	4800	3370	3670	3920	3920	4370	4520	4820
В	mm	1470	1820	1820	1820	2100	2100	2200	1490	1840	1840	1840	2120	2120	2220
B1	mm	410	510	610	610	610	610	610	410	510	610	610	610	610	610
B2	mm	70	70	70	70	70	70	60	60	60	60	60	60	60	60
B3	mm	170	170	170	170	170	170	160	160	160	160	160	160	160	160
С	mm	1210	1510	2000	2000	2190	2320	2320	1230	1530	2020	2020	2210	2340	2340
D	mm	1070	1370	1860	1860	2050	2180	2180	1070	1370	1860	1860	2050	2180	2280
Weight	kg	750	1020	1500	1580	1900	2240	2500	760	1030	1510	1590	1920	2260	2520

MP3 oXy SANITIZATION

MP3nergy

MP3 oXy performs a lonization of the air freeing negative oxygen ions. The oXy system reduces the bacteria of 80 to 85%. This percentage can be brought up to 99% further powering the sanitization system. The technology is based on a special condenser made with a quartz cylinder and a special metallic net, supplied by a low voltage and low power alternate current. The system frees negative oxygen ions and other positive ions; it has a high oxidation power.

SHR

The costant use of MP3 oXy with Bioxigen technology guarantees a big improvement of the internal air quality, acting particularly on:

- ✓ Chemical composition
- ✓ Bacteria activity
- ✓ Electrostatic balance
- ✓ High reduction of fine dust
- High reduction of smells and odours

Improving the health of the people through:

- ✓ Reduction of infection risk caused by bacteria proliferation
- ✓ Improvement of the respiratory system and consequent reduction of diseases
- Reduction of anxiety and stress

The system brings benefits also to the room with:

- Elimination of moulds avoiding damages to the ceiling and walls
- Elimination of smells and odours without the need of using chemical products that affect the integrity of items and the health of the occupants
- ✓ High reduction of mites
- ✓ Elimination of electrostatic charge

Before Prima	Decrease in microbial contents with E Abbattimento del contenuto microbico			After Dopo
	Staphylococcus aureus	decrease % abbattimento %		
Charles M	in 3 hours' time / tempo 3 ore	- 70,90		1
-A	in 8 hours' time / tempo 8 ore	- 97,02		
	in 24 hours' time / tempo 24 ore	- 98,80	294 gp ango d spannes discussion a	a1
	Escherichia coli	decrease % abbattimento %		ŧ
7	in 3 hours' time / tempo 3 ore	- 84,07		
	in 8 hours' time / tempo 8 ore	- 89,77	34,07% gp.77% 995	
1 2	in 24 hours' time / tempo 24 ore	- 99,53	096 3h Bh temps of expectations a Bodger®h on	241
Sec.	Saccaromices cerevisiae	decrease % abbattimento %	1006	
	in 3 hours' time / tempo 3 ore	- 97,71		
a b	in 8 hours' time / tempo 8 ore	- 98,14	99771% 98114% 99466	c d
	in 24 hours' time / tempo 24 ore	- 99,05	3h 8h angs it epositions Becigerhoon 2	4h
	Legionella	UFC / 0,1 ml		
The second	negative control / controllo negativo	0		
a a b	positive control / controllo positivo	191		
	after 5 / dopo 5'	180		
619.25	after 15 / dopo 15'	3		
To the	after 30 / dopo 30'	0	 TO OU Proto republicies a Biologie in trind () 	M
	after 60 / dopo 60'	0		





SHR



SHRC - HEAT RECOVERY PERFORMANCE

SIZE 15

	RISCALDAMENTO / HEATING										
Aria ambiente / Room air			nnovo / :h air	Aria trattata / Supply air	Efficienza / Efficiency (*						
°C	%	°C	%	°C / %	%						
		-10		15,1 / 12,0	89.8						
18	50	-7		14,8 / 16,0	87.1						
18	50	-5	80	14,6 / 19,0	85.3						
		0		14,6 / 30,0	80.9						
		-10		17,3 / 11,0	90.9						
~	50	-7		16,9 / 14,0	88.7						
20	50	-5	80	16,6 / 17,0	86.5						
		0	1	16,5 / 26,0	82.5						
		-10		19,1 / 9,0	90.9						
22 50	-7		19,2 / 12,0	90.3							
	-5	80	18,9 / 15,0	88.5							
	0	1	18,5 / 23,0	84.1							

	R	AFFRESCA	MENTO /	COOLING	
	Aria ambiente / Room air		nnovo / h air	Aria trattata / Supply air	Efficienza / Efficiency (1)
°C	%	°C	%	°C / %	%
		29		25,1/63,0	78.2
24	50	32	50	25,7/72,0	78.2
		35		26,4/82,0	78.1
		29		26,6/58,0	78.2
26	50	32	50	27,3/66,0	78.2
		35		28,0/75,0	78.1
		29		28,2/52,0	78.2
28	50	32	50	28,9/60,0	78.2
		35		29,5/68,0	78.1

(1) Efficienza di recupero in temperatura

(1) Recovery temperature efficiency

SIZE 35

		RISCAL	DAMENTO /	HEATING	
	mbiente / om air	Aria rir <i>Fres</i>	nnovo / h air	Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾
°C	%	°C	%	°C / %	%
	50	-10		15,1 / 12,0	89.8
18		-7	80	14,8 / 16,0	87.1
10		-5		14,6 / 19,0	85.3
		0		14,5 / 30,0	80.7
		-10	80	17,3 / 11,0	91
20	50	-7		16,9 / 14,0	88.7
20	50	-5	00	16,7 / 17,0	86.9
		0		16,5 / 26,0	82.3
S		-10		19,1 / 9,0	91
22	2 50	-7	90	19,2 / 12,0	90.4
22	50	-5	80	18,9 / 15,0	88.6
		0		18,5 / 23,0	84

	R	AFFRESCA	MENTO	COOLING	
Aria ambiente / <i>Room air</i>		Aria rinn Fresh		Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾
°C	%	°C	%	°C/%	%
		29		25,1/63,0	77.4
24	50	32	50	25,8 / 72,0	77.4
		35		26,5 / 81,0	77.3
		29		26,7 / 57,0	77.4
26	50	32	50	27,4/66,0	77.4
		35		28,0 / 74,0	77.3
		29		28,2 / 52,0	77.4
28	50	32	50	28,9 / 60,0	77.4
		35		29,6 / 68,0	77.3

(1) Efficienza di recupero in temperatura (1) Recovery temperature efficiency

SIZE 55

	RISCALDAMENTO / HEATING										
Aria ambiente / Room air			nnovo / h air	Aria trattata / Supply air	Efficienza / Efficiency (1)						
°C	%	°C	%	°C/%	%						
		-10		14,6 / 13,0	87.9						
18	50	-7	80	14,3 / 17,0	85.1						
10	50	-5	80	14,1 / 20,0	83.2						
		0		14,1 / 30,0	78.5						
		-10	80	16,7 / 11,0	89.1						
20	50	-7		16,4 / 15,0	86.8						
20	50	-5	00	16,2 / 17,0	84.9						
		0		16,0 / 27,0	80.2						
		-10		18,5 / 10,0	89.1						
22 50	-7	80	18,7 / 13,0	88.5							
	-5	80	18,4 / 15,0	86.6							
		0		18,0 / 24,0	81.9						

RAFFRESCAMENTO / COOLING										
	mbiente / om air	Aria rin Fres		Aria trattata / Supply air	Efficienza / Efficiency (*					
°C	%	°C	%	°C /%	%					
		29		25,2 / 63,0	75.4					
24	50	32	50	26,0 / 71,0	75.4					
		35		26,7 / 80,0	75.3					
		29		26,7 / 57,0	75.4					
26	50	32	50	27,5 / 65,0	75.4					
		35		28,2 / 74,0	75.3					
		29		28,3 / 52,0	75.4					
28	50	32	50	29,0 / 60,0	75.4					
		35	8	29,7 / 68,0	75.3					

(1) Efficienza di recupero in temperatura
 (1) Recovery temperature efficiency

SHR



SIZE 70

		RISCAL	DAMENTO /	HEATING	
	mbiente / o <i>m air</i>		nnovo / h air	Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾
°C	%	°C	%	°C/%	%
		-10		14,7 / 12,0	88.3
18	50	-7	80 -	14,4 / 17,0	85.5
10	50	-5		14,2 / 20,0	83.5
o		0		14,2 / 30,0	78.8
		-10		16,8 / 11,0	89.4
20	50	-7		16,5 / 14,0	87.2
20	50	-5	80	16,3 / 17,0	85.2
		0		16,1/27,0	80.6
8 - P		-10		18,6 / 10,0	89.4
00	22 50	-7	00	18,8 / 13,0	88.9
22		-5	80	18,5 / 15,0	86.9
		0		18,1/24,0	82.3

RAFFRESCAMENTO / COOLING								
Aria ambiente / Room air		Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾			
°C	%	°C	%	°C/%	%			
		29		25,2 / 63,0	75.6			
24	50	32	50	25,9/71,0	75.6			
		35		26,7 / 81,0	75.5			
		29	- 84	26,7 / 57,0	75.6			
26	50	32	50	27,5/65,0	75.6			
		35		28,2 / 74,0	75.5			
		29		28,2 / 52,0	75.6			
28	50	32	50	29,0 / 60,0	75.6			
		35		29,7 / 68,0	75.5			

(1) Efficienza di recupero in temperatura

(1) Recovery temperature efficiency

SIZE 90

	RISCALDAMENTO / HEATING							
	mbiente / o <i>m air</i>	Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾			
°C	%	°C	%	°C/%	%			
		-10		14,9 / 12,0	88.9			
18	50	-7	80	14,5 / 16,0	86			
10	50	-5	00	14,3 / 20,0	84.1			
		0		14,3 / 30,0	79.4			
		-10		17,0 / 11,0	90			
20	50	-7	80	16,7 / 14,0	87.7			
20	50	-5	00	16,4 / 17,0	85.8			
		0		16,2/27,0	81.1			
22		-10		18,8 / 10,0	90			
22	50	-7	80	18,9 / 12,0	89.4			
22	50	-5	00	18,6 / 15,0	87.5			
		0		18,2 / 23,0	82.8			

RAFFRESCAMENTO / COOLING									
	mbiente / om air	Aria rir Fres	nnovo / h air	Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾				
°C	%	°C	%	°C / %	%				
	0	29	с.	25,2 / 63,0	76				
24	50	32	50	25,9 / 71,0	75.9				
		35		26,6 / 81,0	75.9				
		29	50	26,7 / 57,0	76				
26	50	32		27,4 / 65,0	75.9				
		35		28,2 / 74,0	75.9				
		29		28,2 / 52,0	76				
28	50	32	50	29,0 / 60,0	75.9				
		35		29,7 / 68,0	75.9				

(1) Efficienza di recupero in temperatura

(1) Recovery temperature efficiency

SIZE 100

RISCALDAMENTO / HEATING								
	mbiente / om air	Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾			
°C	%	°C	%	°C / %	%			
		-10		15,1 / 12,0	89.7			
18	50	-7	80	14,8 / 16,0	87			
10	50	-5	80	14,6 / 19,0	85.2			
		0		14,5 / 30,0	80.6			
		-10	80	17,3/11,0	90.9			
20	50	-7		16,9 / 14,0	88.6			
20	50	-5		16,7 / 17,0	86.8			
		0		16,5 / 26,0	82.3			
· · · · · · ·		-10		19,1 / 9,0	90.9			
00	50	-7	80	19,2 / 12,0	90.3			
22	50	-5		18,9 / 15,0	88.5			
		0		18,5 / 23,0	83.9			

RAFFRESCAMENTO / COOLING								
	mbiente / om air		nnovo / sh air	Aria trattata / Supply air	Efficienza / Efficiency (1)			
°C	%	°C	%	°C/%	%			
		29		25,1/63,0	77.7			
24	50	32	50	25,8 / 72,0	77.6			
		35		26,5 / 82,0	77.5			
		29		26,7 / 57,0	77.7			
26	50	32	50	27,3/66,0	77.6			
		35	1	28,0 / 74,0	77.5			
		29		28,2 / 52,0	77.7			
28	50	32	50	28,9 / 60,0	77.6			
		35	1	29,6 / 68,0	77.5			

(1) Efficienza di recupero in temperatura
 (1) Recovery temperature efficiency

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SIZE 130

RISCALDAMENTO / HEATING							
	mbiente / om air	Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency (1)		
°C	%	°C	%	°C / %	%		
		-10		15,0 / 12,0	89.2		
18	50	-7	80	14,6 / 16,0	86.4		
18	50	-5	80	14,4 / 20,0	84.4		
		0	1	14,3 / 30,0	79.6		
		-10		17,1 / 11,0	90.4		
20	50	-7	80	16,8 / 14,0	88.1		
20	50	-5	80	16,5 / 17,0	86.1		
	F	0	1	16,3/27,0	81.4		
		-10		18,9 / 10,0	90.4		
22	50	-7		19,0 / 12,0	89.8		
	50	-5	80	18,7 / 15,0	87.9		
		0	1	18,3/23,0	83.1		

RAFFRESCAMENTO / COOLING								
Aria ambiente / Room air		Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency (1)			
°C	%	°C	%	°C/%	%			
		29		25,2 / 63,0	75.8			
24	50	32	50	25,9 / 71,0	75.8			
		35		26,7 / 81,0	75.7			
		29		26,7 / 57,0	75.8			
26	50	32	50	27,4 / 65,0	75.8			
		35		28,2 / 74,0	75.7			
		29		28,2 / 52,0	75.8			
28	50	32	50	29,0 / 60,0	75.8			
		35		29,7 / 68,0	75.7			

(1) Efficienza di recupero in temperatura
 (1) Recovery temperature efficiency

SIZE 150

RISCALDAMENTO / HEATING							
	mbiente / om air	Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾		
°C	%	°C	%	°C / %	%		
		-10		15,2 / 12,0	89.9		
18	50	-7	80	14,8 / 16,0	87		
10	50	-5	00	14,6 / 19,0	85.2		
		0		14,5 / 30,0	80.4		
		-10	80	17,3 / 11,0	91		
20	50	-7		16,9 / 14,0	88.7		
20	50	-5	00	16,7 / 17,0	86.9		
		0		16,4 / 26,0	82.1		
3		-10		19,1 / 9,0	91		
22	50	-7	00	19,2 / 12,0	90.4		
22	50	-5	80	18,9 / 15,0	88.6		
		0		18,4 / 23,0	83.8		

RAFFRESCAMENTO / COOLING									
	mbiente / om air		nnovo / sh air	Aria trattata / Supply air	Efficienza / Efficiency (1)				
°C	%	°C	%	°C/%	%				
		29		25,2 / 63,0	76.4				
24	50	32	50	25,9 / 71,0	76.3				
		35		26,6 / 81,0	76.3				
		29	20	26,7 / 57,0	76.4				
26	50	32	50	27,4 / 65,0	76.3				
		35	1	28,1 / 74,0	76.3				
		29		28,2 / 52,0	76.4				
28	50	32	50	28,9 / 60,0	76.3				
		35	T ^{er}	29,7 / 68,0	76.3				

(1) Efficienza di recupero in temperatura (1) Recovery temperature efficiency



SHRC - HEAT RECOVERY PERFORMANCE

SHR

SIZE 15

RISCALDAMENTO / HEATING								
Aria ambiente / Room air		Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency (1)			
°C	%	°C	%	°C/%	%			
		-10		11,6 / 66,0	772			
18	50	-7	80	12.3 / 64,0	772			
10	50	-5	00	12,8 / 62,0	77.3			
		0		13,9 / 59,0	77.3			
		-10		13,2 / 68,0	772			
20	50	-7	80	13,9 / 65,0	77.3			
20	50	-5	00	14,1 / 64,0	76.4			
		0	1	15,5 / 60,0	77.4			
		-10		14,7 / 69,0	77.3			
22	50	-7	80	15,4 / 67,0	77.4			
	50	-5	00	15,9 / 65,0	77.4			
		0	1	17,0 / 61,0	77.5			

RAFFRESCAMENTO / COOLING								
Aria ambiente / Room air		Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency (1)			
°C	%	°C	%	°C / %	%			
		29	2	25,1/51,0	77.8			
24	50	32	50	25,8/52,0	77.8			
		35		26,6/52,0	76			
		29		26,7/51,0	77.9			
26	50	32	50	28,2/52,0	76.6			
		35	1	28,2/52,0	75.5			
		29	2	28,2/50,0	78			
28	50	32	50	28,9/51,0	78			
	[35	1	29,5/52,0	77.9			

(1) Efficienza di recupero in temperatura
 (1) Recovery temperature efficiency

SIZE 35

	RISCALDAMENTO / HEATING							
	mbiente / o <i>m air</i>	Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency (1)			
°C	%	°C	%	°C/%	%			
		-10		11,4 / 67,0	76.3			
18	50	-7	80	12,1 / 64,0	76.4			
10	50	-5	00	12,6 / 63,0	76.4			
		0		13,8 / 59,0	76.5			
		-10		12,9 / 68,0	76.4			
20	50	-7	80	13,6 / 65,0	76.4			
20	50	-5	00	13,9 / 64,0	75.5			
		0		15,3 / 60,0	76.5			
		-10		14,5 / 69,0	76.4			
22	50	-7	80	15,2 / 67,0	76.5			
22	50	-5	00	15,7 / 65,0	76.5			
		0		16,9 / 61,0	76.6			

		RAFFRES	CAMENTO	/ COOLING	
Aria ambiente / Room air		Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾
°C	%	°C	%	°C / %	%
		29		25,1/52,0	77
24	24 50	32	50	25,8/52,0	77
		35	3	26,7/53,0	75.2
		29		26,7/51,0	77.1
26	50	32	50	28,3/52,0	75.6
		35		28,3/52,0	74.7
		29		28,2/50,0	77.2
28	50	32	50	28,9/51,0	77.1
		35		29,6/52,0	77.1

(1) Efficienza di recupero in temperatura
 (1) Recovery temperature efficiency

SIZE 55

	18.2	RISCAL	DAMENTO /	HEATING	
	mbiente / o <i>m air</i>		nnovo / h air	Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾
°C	%	°C	%	°C/%	%
	100	-10		11,2/67,0	75.8
18	50	-7	80	12,0 / 65,0	75.9
10	50	-5	80	12,5 / 63,0	75.9
		0		13,7 / 60,0	76
		-10	80	12,8 / 69,0	75.9
20	50	-7		13,5 / 66,0	76.0
20	50	-5		13,8 / 64,0	75.0
		0		15,2 / 61,0	76.1
· · · · · · · · · · · · · · · · · · ·		-10		14,3 / 70,0	76
22	50	-7	80	15,1 / 67,0	76
22	50	-5	00	15,5 / 66,0	76.1
		0		16,8 / 62,0	762

		RAFFRES	SCAMENTO) / COOLING	
	mbiente / om air		nnovo / h air	Aria trattata / Supply air	Efficienza / Efficiency (1)
°C	%	°C	%	°C / %	%
	°	29	~	25,2/51,0	76.6
24	50	32	50	25,9/52,0	76.6
		35		26,8/52,0	74.8
		29		26,7/51,0	76.7
26	50	32	50	28,4 / 520	75.2
		35		28,3/52,0	74.4
		29		28,2/50,0	76.8
28	50	32	50	28,9/51,0	76.8
		35		29,6/52,0	76.7

(1) Efficienza di recupero in temperatura

(1) Recovery temperature efficiency

SHR



-

SIZE 70

		RISCAL	DAMENTO /	HEATING	
	mbiente / om air	Aria rin Fres	nnovo / hair	Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾
°C	%	°C	%	°C / %	%
		-10		11,1/67,0	75.3
18	50	-7	80	11,8/64,0	75.3
10	50	-5	80	12,3 / 63,0	75.4
		0		13,6 / 59,0	75.5
		-10		12,6 / 68,0	75.3
20	0 50	-7	80	13,4 / 66,0	75.4
20	50	-5	80	13,6 / 64,0	74.4
		0		15,1 / 60,0	75.5
		-10		14,1 / 70,0	75.4
22	50	-7	80	14,9 / 67,0	75.5
22	50	-5	00	15,4 / 65,0	75.5
		0		16,6 / 62,0	75.6

		RAFFRES	SCAMENTO	/ COOLING	
Aria ambiente / Room air		Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza/ Efficiency ⁽¹⁾
°C	%	°C	%	°C/%	%
		29		25,2 / 52,0	76
24	50	32	50	25,9 / 52,0	76
	Ī	35		26,8 / 53,0	74.3
		29		26,7 / 51,0	76.1
26	50	32	50	28,5 / 52,0	74.6
	Ī	35		28,4 / 53,0	73.8
		29		28,2 / 50,0	76.2
28	50	32	50	29,0 / 52,0	76.2
	Ī	35		29,7 / 52,0	76.1

(1) Efficienza di recupero in temperatura (1) Recovery temperature efficiency

SIZE 90

		RISCAL	DAMENTO /	HEATING	
	mbiente / om air		nnovo / hair	Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾
°C	%	°C	%	°C / %	%
		-10		11,2 / 67,0	75.7
18	50	-7	80	11,9 / 64,0	75.7
10	50	-5	00	12,4 / 63,0	75.8
-		0		13,7 / 59,0	75.8
		-10	80	12,7 / 69,0	75.7
20	50	-7		13,5 / 66,0	75.8
20	50	-5	00	13,7 / 64,0	74.9
		0		15,2/61,0	75.9
2 C		-10		14,3 / 70,0	75.8
22	50	-7	80	15,0 / 67,0	75.9
22	50	-5	00	15,5 / 65,0	75.9
		0		16,7 / 62,0	76

	RAFFRESCAMENTO / COOLING									
	mbiente / om air	Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency (1)					
°C	%	°C	%	°C/%	%					
		29		25,2 / 52,0	76.4					
24	24 50	32	50	25,9 / 52,0	76.4					
		35		26,8 / 53,0	74.6					
		29		26,7 / 51,0	76.5					
26	50	32	50	28,4 / 52,0	75.1					
		35		28,3 / 52,0	74.1					
		29		28,2 / 50,0	76.6					
28	50	32	50	28,9 / 51,0	76.5					
		35		29,6 / 52,0	76.5					

(1) Efficienza di recupero in temperatura

(1) Recovery temperature efficiency

SIZE 130

		RISCAL	DAMENTO /	HEATING	22
	mbiente / om air	Aria rir Fres	nnovo / h air	Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾
°C	%	°C	%	°C / %	%
	-10			10,9 / 66,0	74.7
18	50	-7	80	11,7 / 64,0	74.8
10	50	-5	80	12,2 / 62,0	74.8
		0		13,5 / 59,0	74.9
		-10		12,4 / 68,0	74.8
20	50	-7	80	13,2 / 65,0	74.8
20	50	-5	00	13,5 / 63,0	74.0
		0		15,0 / 60,0	75.0
· · · · · · · · · · · · · · · · · · ·		-10		13,9 / 69,0	74.8
22	50	-7		14,7 / 66,0	74.9
22	50	-5	80	15,2 / 65,0	74.9
	8	0		16,5 / 61,0	75.0

		RAFFRES	SCAMENTO	O / COOLING	
	nbiente / om air	Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency (1)
°C	%	°C	%	°C/%	%
		29		25,1/51,0	77.8
24	50	32	50	25,8 / 52,0	77.8
		35		26,6 / 52,0	76
		29		26,7 / 51,0	77.9
26	50	32	50	28,2 / 52,0	76.6
		35		28,2 / 52,0	75.5
~		29		28,2 / 50,0	78
28	50	32	50	28,9 / 51,0	78
		35		29,5 / 52,0	77.9

(1) Efficienza di recupero in temperatura

(1) Recovery temperature efficiency

SHR



SIZE 150

	RISCALDAMENTO / HEATING									
	mbiente / om air	Aria rir Fres	nnovo / h air	Aria trattata / Supply air	Efficienza / Efficiency ⁽¹⁾					
°C	%	°C	%	°C/%	%					
· · · · · ·	-10			11,2 / 65,0	75.6					
18	50	-7	80	11,9 / 63,0	75.7					
10	50	-5	80	12,4 / 61,0	75.7					
		0		13,6 / 58,0	75.8					
		-10	80	12,7 / 66,0	75.7					
20	50	-7		13,5 / 64,0	75.8					
20	50	-5	00	14,1 / 62,0	76.5					
		0		15,2 / 59,0	75.9					
		-10		14,2 / 68,0	75.8					
00	50	-7	80	15,0 / 65,0	75.8					
22	22 50	-5		15,5 / 64,0	75.9					
		0		16,7 / 60,0	76					

		RAFFRES	CAMENTO	/ COOLING	
	mbiente / om air	Aria rinnovo / Fresh air		Aria trattata / Supply air	Efficienza / Efficiency (1)
°C	%	°C	%	°C / %	%
		29	~	25,2/53,0	76.4
24	50	32	50	25,9/54,0	76.3
		35		26,8/55,0	74.6
		29		26,7/52,0	76.4
26	50	32	50	28,2/53,0	75.3
		35		28,3/54,0	74.1
		29		28,2/51,0	76.5
28	50	32	50	28,9/52,0	76.5
		35		29,6/54,0	76.5

(1) Efficienza di recupero in temperatura
 (1) Recovery temperature efficiency



SOUND POWER LEVELS Lw(A) AT NOMINAL AIRFLOW

SHR

SIZE 04

	Potenza sonora Lw per frequenza di centro banda Sound power levels Lw at center band frequencies							Lw globale		
	Hz	63	125	250	500	1000	2000	4000	8000	Total Lw
Canale di mandata / Supply duct	dB(A)	47.7	56.9	63.7	66.6	64.8	60.2	58.0	53.9	70.9
Canale di espulsione / Exhaust duct	dB(A)	48.0	57.1	63.8	67.0	65.1	60.4	58.4	54.9	71.2
Esterno involucro / Outside the casing	dB(A)	42.9	45.7	52.0	52.5	50.4	45.5	26.9	17.6	57.3

SIZE 08

	Potenza sonora Lw per frequenza di centro banda Sound power levels Lw at center band frequencies								Lw globale Total Lw	
	Hz	63	125	250	500	1000	2000	4000	8000	i otai Lw
Canale di mandata / Supply duct	dB(A)	50.2	59.4	66.2	69.1	67.3	62.7	60.5	56.4	73.4
Canale di espulsione / Exhaust duct	dB(A)	50.5	59.6	66.3	69.5	67.6	62.9	60.9	57.4	73.7
Esterno involucro / Outside the casing	dB(A)	45.4	48.2	54.5	55.0	52.9	48.0	29.4	20.1	59.8

SIZE 10

	Potenza sonora Lw per frequenza di centro banda Sound power levels Lw at center band frequencies								Lw globale <i>Total Lw</i>	
	Hz	63	125	250	500	1000	2000	4000	8000	Total LW
Canale di mandata / Supply duct	dB(A)	41.8	57.9	67.4	64.8	67.0	65.2	60.0	50.9	72.7
Canale di espulsione / Exhaust duct	dB(A)	41.8	57.9	67.4	64.8	67.0	65.2	60.0	50.9	72.7
Esterno involucro / Outside the casing	dB(A)	36.8	46.6	55.6	50.5	52.4	50.4	28.7	14.1	59.1

SIZE 15

	Potenza sonora Lw per frequenza di centro banda Sound power levels Lw at center band frequencies							Lw globale		
	Hz	63	125	250	500	1000	2000	4000	8000	Total Lw
Canale di mandata / Supply duct	dB(A)	33.8	59.9	68.4	65.8	69.0	67.2	62.0	53.9	74.3
Canale di espulsione / Exhaust duct	dB(A)	33.8	59.9	68.4	65.8	69.0	67.2	62.0	53.9	74.3
Esterno involucro / Outside the casing	dB(A)	28.8	48.6	56.6	51.5	54.4	52.4	30.7	17.1	60.5

SIZE 20

	Potenza sonora Lw per frequenza di centro banda Sound power levels Lw at center band frequencies							Lw globale		
	Hz	63	125	250	500	1000	2000	4000	8000	Total Lw
Canale di mandata / Supply duct	dB(A)	35.8	58.9	67.4	62.8	66.0	67.2	59.0	49.9	72.6
Canale di espulsione / Exhaust duct	dB(A)	36.0	60.7	67.4	63.1	66.1	67.1	60.0	50.9	72.8
Esterno involucro / Outside the casing	dB(A)	30.9	48.6	55.6	48.7	51.5	52.4	28.2	13.6	59.2

SIZE 32

	Potenza sonora Lw per frequenza di centro banda Sound power levels Lw at center band frequencies								Lw globale	
	Hz	63	125	250	500	1000	2000	4000	8000	Total Lw
Canale di mandata / Supply duct	dB(A)	36.8	62.9	74.4	65.8	68.0	68.2	63.0	54.9	76.9
Canale di espulsione / Exhaust duct	dB(A)	37.3	63.4	74.7	66.2	68.4	68.4	63.6	55.7	77.2
Esterno involucro / Outside the casing	dB(A)	32.1	51.9	62.8	51.7	53.6	53.5	32.0	18.5	64.2



SIZE 40

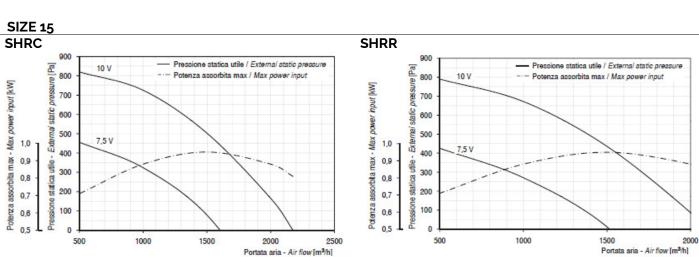
Potenza sonora Lw per frequenza di centro banda Sound power levels Lw at center band frequencies								Lw globale		
	Hz	63	125	250	500	1000	2000	4000	8000	Total Lw
Canale di mandata / Supply duct	dB(A)	40.8	66.4	73.4	69.8	72.0	72.2	69.0	60.9	78.9
Canale di espulsione / Exhaust duct	dB(A)	40.8	67.0	74.4	70.3	72.6	72.5	69.0	59.9	79.5
Esterno involucro / Outside the casing	dB(A)	35.8	55.4	62.1	55.8	57.7	57.6	37.7	23.6	65.5

SHR

SIZE 50

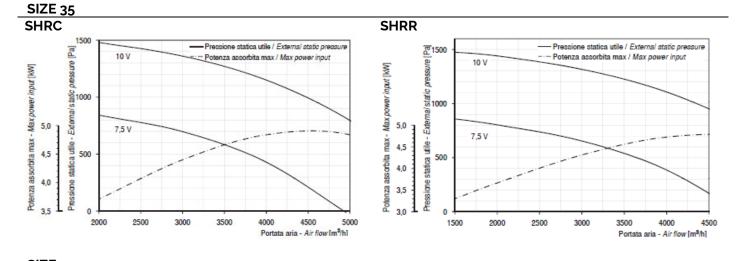
	Potenza sonora Lw per frequenza di centro banda Sound power levels Lw at center band frequencies							Lw globale		
	Hz	63	125	250	500	1000	2000	4000	8000	Total Lw
Canale di mandata / Supply duct	dB(A)	44.6	70.7	75.6	71.8	74.5	76.1	73.0	64.9	81.9
Canale di espulsione / Exhaust duct	dB(A)	44.8	71.5	76.4	71.8	75.0	76.2	73.2	65.0	82.3
Esterno involucro / Outside the casing	dB(A)	39.7	59.8	64.2	57.5	60.2	61.4	41.8	28.2	68.2

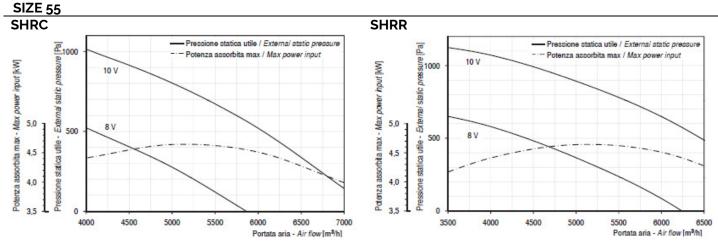
FAN CURVES



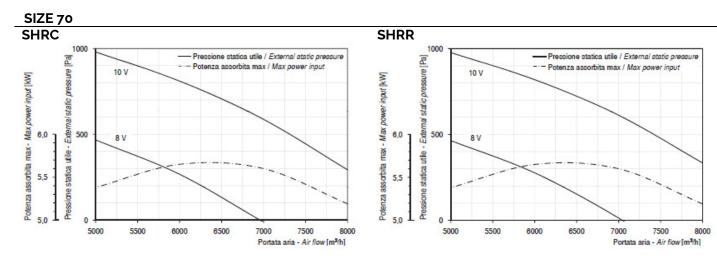
solutions

vanced air

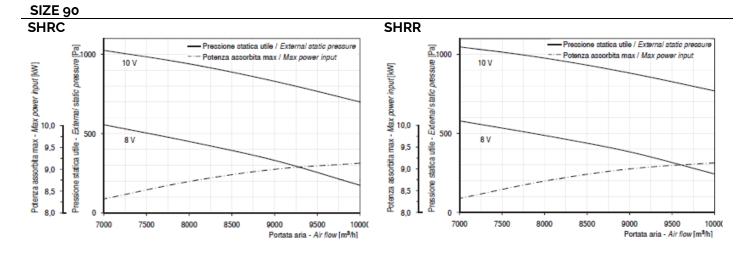


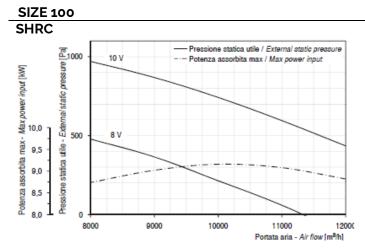






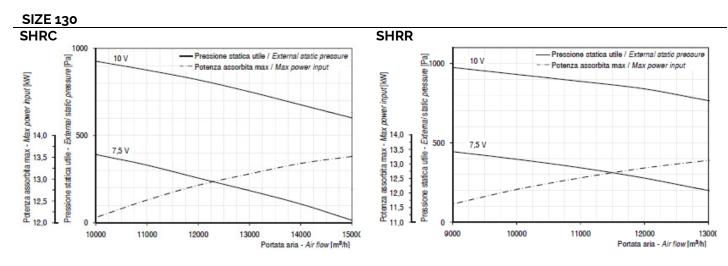
SHR

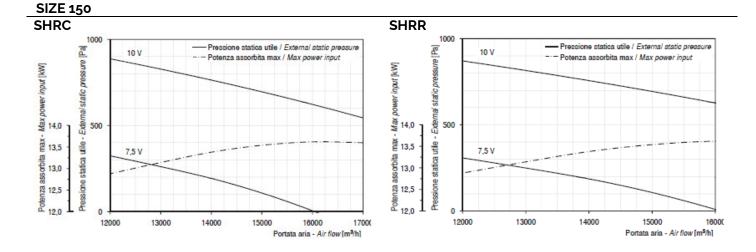




SHRR Size not available











ANCILLARIES – For additional information and combination, please call the Sales Department

	ANCILLARIES			
	Code	Size		
	BAER_SH1515	size 15		
	BAER_SH3535	size 35		
Electric pre-heating	BAER_SH5570	size from 55 to 70		
	BAER_SH90100	size from 90 to 100		
	BAER_SH130150	size from 130 to 150		
	BZER_SH1515	size 15		
	BZER_SH3535	size 35		
Electric post-heating	BZER_SH5570	size from 55 to 70		
	BZER_SH90100	size from 90 to 100		
	BZER_SH130150	size from 130 to 150		
	BZ2W1515	size 15		
	BZ2W3535	size 35		
2R water coil	BZ2W55570	size from 55 to 70		
	BZ2W90100	size from 90 to 100		
	BZ2W90100 BZ2W130150	size from 130 to 150		
	BZ4W1515	size 15		
	BZ4W3535	size 35		
4R water coil	BZ4W3535 BZ4W5570	size from 55 to 70		
4K water con				
	BZ4W90100	size from 90 to 100		
	BZ4W130150	size from 130 to 150		
	BVMW_SH1515	size 15		
Kit 3-Way valve with modulating actuator	BVMW_SH3535	size 35		
	BVMW_SH55100	size from 55 to 100		
	BVMW_SH130150	size from 130 to 150		
	BHU11515	size 15		
Electric steam humidifier kit	BHU13535	size 35		
	BHU155100	size from 55 to 100		
	BHU1130150	size from 130 to 150		
	BHU21515	size 15		
Electric steam humidifier kit	BHU23535	size 35		
	BHU255100	size from 55 to 100		
	BHU2130150	size from 130 to 150		
Filter Pressure switch	BKPF_SH15150	size from 15 to 150		
	BGRD1515	size 15		
	BGRD3535	size 35		
Intake-outlet grid	BGRD5570	size from 55 to 70		
	BGRD90100	size from 90 to 100		
	BGRD130150	size from 130 to 150		



	Code	Size
	BRDO_SH1515	size 15
Desite balls design the ON OFF established	BRDO_SH3535	size 35
Recirculation damper with ON-OFF actuator	BRDO_SH5570	size from 55 to 70
	BRDO_SH90150	size from 90 to 150
	BRDM_SH1515	size 15
Recirculation damper with modulating	BRDM_SH3535	size 35
actuator	BRDM_SH5570	size from 55 to 70
	BRDM_SH90150	size from 90 to 150
	BEDO_SH1515	size 15
	BEDO_SH3535	size 35
Damper with damper actuator ON/OFF 230V	BEDO_SH5570	size from 55 to 70
2300	BEDO_SH90100	size from 90 to 100
	BEDO_SH130150	size from 130 to 150
	BEDS_SH1515	size 15
	BEDS_SH3535	size 35
Damper with damper actuator ON/OFF 230V SPRING RETURN	BEDS_SH5570	size from 55 to 70
250V SPRING RETORN	BEDS_SH90100	size from 90 to 100
	BEDS_SH130150	size from 130 to 150
	BEDM_SH1515	size 15
	BEDM_SH3535	size 35
Damper with modulating actuator	BEDM_SH5570	size from 55 to 70
	BEDM_SH90100	size from 90 to 100
	BEDM_SH130150	size from 130 to 150
	BGAV1515	size 15
	BGAV3535	size 35
Flexible airduct connection	BGAV5570	size from 55 to 70
	BGAV90100	size from 90 to 100
	BGAV130150	size from 130 to 150
	BTPC_SH1515	size 15
	BTPC_SH3535	size 35
Weather canopy	BTPC_SH5570	size from 55 to 70
	BTPC_SH90100	size from 90 to 100
	BTPC_SH130150	size from 130 to 150
	BTPR_SH1515	size 15
	BTPR_SH3535	size 35
Weather canopy	BTPR_SH5570	size from 55 to 70
	BTPR_SH9090	size 90
	BTPR_SH130150	size from 130 to 150



Fresh and exhaust air stream rain hood kit	Code BCFA1515 BCFA3535 BCFA5570 BCFA90100	Size size 15 size 35 size from 55 to 70 size from 90 to 100
Sound attenuator section	BCFA130150 BSSA1515 BSSA3535 BSSA5570 BSSA90100 BSSA130150	size from 130 to 150 size 15 size 35 size from 55 to 70 size from 90 to 100 size from 130 to 150
Purifying system MP3oXy	BOXG_SH1515 BOXG_SH3535 BOXG_SH5570 BOXG_SH90100 BOXG_SH130150	size 15 size 35 size from 55 to 70 size from 90 to 100 size from 130 to 150
Differential pressure switch	BDPS_SH1515 BDPS_SH35150	size 15 size from 35 to 150
Duct mount CO2 sensor	BECD15150	size from 15 to 150
Wall mount CO2 sensor	BECW15150	size from 15 to 150
Duct mount humidity sensor	BHUD15150	size from 15 to 150
Wall mount humidity sensor	BHUW15150	size from 15 to 150
Modbus serial card	BMDB15150	size from 15 to 150
Wall mount remote control panel	BWCP_SH15150	size from 15 to 150