

**PermoFin<sup>®</sup>**



evaporatorlar / evaporators



## EVOPERATÖRLER PENGUA-S

PENGUA-S Serisi evoperatörler galvaniz çelik malzemededen üretilmektedir ve satandart olarak RAL 9010 elektrostatik boya ile boyanmaktadır.

Evoperatörlerin alt kısmında bulunan yoğuşma haznesinin iç yüzeyleri özel epoksi boya ile kaplanarak daha uzun ömürlü ve hijyenik hale getirilmiştir. Yoğuşma haznesi özel menteşeli montajı ile kolay temizleme imkanı sağlamaktadır. Evopratorler 1/2 bakır borudan 32-28 geometrisinde imal edilmektedir.

Finler 0,20 mm kalınlığında alüminyum folyadan dalgalı olarak imal edilmektedir. Eritme fonksiyonu için rezistans yerleri mevcuttur. Tüp şeklindeki kumlu rezistanslar ile kolay defrost imkanı sağlanmaktadır. Hatve yükseklikleri 4-6-8 mm olarak dizayn edilmiştir. Tavan ve duvar montajına uyumlu askı aparatları bulunmaktadır. Evoperatör giriş ve çıkış kollektörleri bakır borudan imal edilmektedir.

## EVOPERATORS PENGUA-S

*PENGUA-S Series evaporators are manufactured from galvanized steel material and are painted with RAL 9010 electrostatic paint as standard. The inner surfaces of the condensation chamber located at the bottom of the evaporators are coated with special epoxy paint, making them more durable and hygienic.*

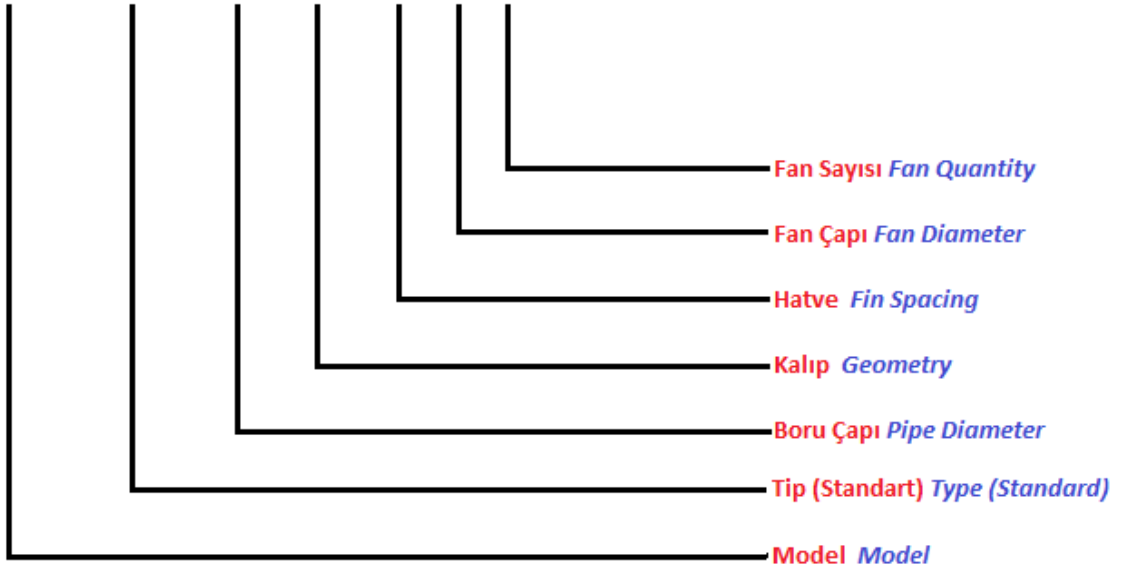
*The condensation chamber provides easy cleaning with its special hinged assembly. Evoprators are manufactured from 1/2 copper pipe in 32-28 geometry.*

*Fins are manufactured from 0.20 mm thick aluminum foil as wavy. There are resistance places for the melting function. Easy defrosting is provided with tubular sandy resistances. Pitch heights are designed as 4-6-8 mm. There are hanging apparatus compatible with ceiling and wall mounting. Evoperator inlet and outlet collectors are made of copper pipes.*



## MODEL AÇILIMI / MODEL EXPANSION

PENGUA - S - 1/2 -32/28- 4 -200-2



## TEKNİK DETAYLAR / TECHNICAL DETAILS

Kalıp Geometri (32x28)mm	Fan Çapı Fan Diameter (250-300-350-400-450-500)			Hatve Aralığı Fin Spacing (4)(6)mm				
	Alan Surface (m <sup>2</sup> )	Hacim Volume (L)	Kapasite Capacity (0 C° W)	Kapasite Capacity (-10 C° W)	Kapasite Capacity (-18 C° W)	Fan Çapı Fan Diameter (mm)	Fan Adet Fan Quantity	Hava Dedisi Air Flow 1400 d/d rpm (m <sup>3</sup> /h)
PENUA-S - 3/8 - 32/28 - 4 - 250-1	7	1,00	2000	1400	980	250	1	720
PENUA-S - 3/8 - 32/28 - 6 - 250-1	6		1700	1190	833			800
PENUA-S - 3/8 - 32/28 - 4 - 300-1	9	1,30	3000	2100	1470	300	1	1300
PENUA-S - 3/8 - 32/28 - 6 - 300-1	7		2550	1785	1250			1450
PENUA-S - 1/2 - 32/28 - 4 - 300-1	12	3,00	2850	1995	1397	300	1	1400
PENUA-S - 1/2 - 32/28 - 6 - 300-1	10		2508	1756	1229			1500
PENUA-S - 3/8 - 32/28 - 4 - 250-2	19	2,60	3800	2660	1862	250	2	1350
PENUA-S - 3/8 - 32/28 - 6 - 250-2	14		3230	2261	1583			1600
PENUA-S - 3/8 - 32/28 - 4 - 300-2	28	4,00	4600	3220	2254	300	2	2690
PENUA-S - 3/8 - 32/28 - 6 - 300-2	22		3910	2737	1916			2900
PENUA-S - 1/2 - 32/28 - 4 - 300-2	24	5,00	4370	3059	2141	300	2	3000
PENUA-S - 1/2 - 32/28 - 6 - 300-2	18		3846	2692	1884			3100
PENUA-S - 3/8 - 32/28 - 4 - 300-3	30	6,00	7000	4900	3430	300	2	4600
PENUA-S - 3/8 - 32/28 - 6 - 300-3	27		5950	4165	2916			5000
PENUA-S - 1/2 - 32/28 - 4 - 300-3	54	9,00	6650	4655	3259	300	2	4800
PENUA-S - 1/2 - 32/28 - 6 - 300-3	37		5852	4096	2867			5100
PENUA-S - 3/8 - 32/28 - 4 - 450-2	47	6,40	9000	6300	4410	450	2	9100
PENUA-S - 3/8 - 32/28 - 6 - 450-2	32		7650	5355	3749			9500
PENUA-S - 1/2 - 32/28 - 4 - 450-2	57	14,00	8550	5985	4190	450	2	9700
PENUA-S - 1/2 - 32/28 - 6 - 450-2	38		7524	5267	3687			10000
PENUA-S - 3/8 - 32/28 - 4 - 500-2	63	6,80	14000	9800	6860	500	2	11500
PENUA-S - 3/8 - 32/28 - 6 - 500-2	47		11900	8330	5831			12000
PENUA-S - 1/2 - 32/28 - 4 - 500-2	64	16,00	13300	9310	6517	500	2	12100
PENUA-S - 1/2 - 32/28 - 6 - 500-2	48		11704	8193	5735			13000
PENUA-S - 3/8 - 32/28 - 4 - 450-3	75	9,60	22000	15400	10780	450	3	13500
PENUA-S - 3/8 - 32/28 - 6 - 450-3	50		18700	13090	9163			15500
PENUA-S - 1/2 - 32/28 - 4 - 450-3	86	21,00	20900	14630	10241	450	3	16200
PENUA-S - 1/2 - 32/28 - 6 - 450-3	58		18392	12874	9012			1700
PENUA-S - 3/8 - 32/28 - 4 - 500-3	75	10,20	28000	19600	13720	500	3	17300
PENUA-S - 3/8 - 32/28 - 6 - 500-3	50		23800	16660	11662			18400
PENUA-S - 1/2 - 32/28 - 4 - 500-3	86	21,00	26600	18620	13034	500	3	19500
PENUA-S - 1/2 - 32/28 - 6 - 500-3	58		23408	16386	11470			21000
PENUA-S - 3/8 - 32/28 - 4 - 450-4	95	12,80	36000	25200	17640	450	4	15000
PENUA-S - 3/8 - 32/28 - 6 - 450-4	63		30600	21420	14994			16000
PENUA-S - 1/2 - 32/28 - 4 - 450-4	115	28,00	34200	23940	16758	450	4	17000
PENUA-S - 1/2 - 32/28 - 6 - 450-4	82		30096	21067	14747			18000
PENUA-S - 3/8 - 32/28 - 4 - 500-4	95	19,20	50000	35000	24500	500	4	23000
PENUA-S - 3/8 - 32/28 - 6 - 500-4	63		42500	29750	20825			25000
PENUA-S - 1/2 - 32/28 - 4 - 500-4	115	28,00	47500	33250	23275	500	4	24000
PENUA-S - 1/2 - 32/28 - 6 - 500-4	82		41800	29260	20482			26000

PENUA-S 250 300 350 400 450 500 SERİSİ KAPASİTE TABLOSU PENUA-S SERIES CAPACITY TABLE 250 300 350 400 450 500

MODEL	0,8	1,0	1,2	1,8	2,0	2,6	3,2	4,6	6,0	9,0	12,0	16,0	18,0	21,0	24,0	26,0	28,0	31,0	33,0	35,0	38,0	41,0	44,0	46,0	51,0		
PENUA-S-250-1																											
PENUA-S-300-1																											
PENUA-S-250-2																											
PENUA-S-300-2																											
PENUA-S-300-3																											
PENUA-S-450-2																											
PENUA-S-500-2																											
PENUA-S-450-3																											
PENUA-S-500-3																											
PENUA-S-450-4																											
PENUA-S-500-4																											

PENUA-P 630 SERİSİ KAPASİTE TABLOSU PENUA-P SERIES CAPACITY TABLE 630

MODEL	10,0	12,0	15,0	18,0	22,0	28,0	32,0	36,0	40,0	45,0	51,0	55,0	62,0	68,0	70,0	76,0	80,0	85,0	90,0	95,0	100,0							
PENUA-P-630-2																												
PENUA-P-630-3																												
PENUA-P-630-4																												
PENUA-P-630-5																												

Model (PENUA-S)	Uzunluk Length (mm)	Genişlik Width (mm)	Yükseklik Height (mm)
PENUA-S - 3/8 - 32/28 - 4 - 250- 1	800	300	450
PENUA-S - 3/8 - 32/28 - 6 - 250- 1			
PENUA-S - 3/8 - 32/28 - 4 - 300- 1			
PENUA-S - 3/8 - 32/28 - 6 - 300- 1			
PENUA-S - 1/2 - 32/28 - 4 - 300- 1			
PENUA-S - 1/2 - 32/28 - 6 - 300- 1	1250	350	450
PENUA-S - 3/8 - 32/28 - 4 - 250- 2			
PENUA-S - 3/8 - 32/28 - 6 - 250- 2			
PENUA-S - 3/8 - 32/28 - 4 - 300- 2			
PENUA-S - 3/8 - 32/28 - 6 - 300- 2			
PENUA-S - 1/2 - 32/28 - 4 - 300- 2			
PENUA-S - 1/2 - 32/28 - 6 - 300- 2	1600	350	450
PENUA-S - 3/8 - 32/28 - 4 - 300- 3			
PENUA-S - 3/8 - 32/28 - 6 - 300- 3			
PENUA-S - 1/2 - 32/28 - 4 - 300- 3			
PENUA-S - 1/2 - 32/28 - 6 - 300- 3			
PENUA-S - 3/8 - 32/28 - 4 - 450- 2	1450	410	550
PENUA-S - 3/8 - 32/28 - 6 - 450- 2			
PENUA-S - 1/2 - 32/28 - 4 - 450- 2			
PENUA-S - 1/2 - 32/28 - 6 - 450- 2			
PENUA-S - 3/8 - 32/28 - 4 - 500- 2			
PENUA-S - 3/8 - 32/28 - 6 - 500- 2	2400	410	620
PENUA-S - 1/2 - 32/28 - 4 - 500- 2			
PENUA-S - 1/2 - 32/28 - 6 - 500- 2			
PENUA-S - 3/8 - 32/28 - 4 - 450- 3			
PENUA-S - 3/8 - 32/28 - 6 - 450- 3			
PENUA-S - 1/2 - 32/28 - 4 - 450- 3	3000	410	620
PENUA-S - 1/2 - 32/28 - 6 - 450- 3			
PENUA-S - 3/8 - 32/28 - 4 - 500- 3			
PENUA-S - 3/8 - 32/28 - 6 - 500- 3			
PENUA-S - 1/2 - 32/28 - 4 - 500- 3			
PENUA-S - 1/2 - 32/28 - 6 - 500- 3	3000	410	620
PENUA-S - 3/8 - 32/28 - 4 - 450- 4			
PENUA-S - 3/8 - 32/28 - 6 - 450- 4			
PENUA-S - 1/2 - 32/28 - 4 - 450- 4			
PENUA-S - 1/2 - 32/28 - 6 - 450- 4			
PENUA-S - 3/8 - 32/28 - 4 - 500- 4			
PENUA-S - 3/8 - 32/28 - 6 - 500- 4			
PENUA-S - 1/2 - 32/28 - 4 - 500- 4			
PENUA-S - 1/2 - 32/28 - 6 - 500- 4			

Model (PENUA-P)	Kalıp Geometri (32x28)mm		Fan Çapı Fan Diameter (630)			Hatve Aralığı Fin Spacing (6)8)mm		
	Alan Surface (m <sup>2</sup> )	Hacim Volume (L)	Kapasite Capacity (0 C° kW)	Kapasite Capacity (-10 C° kW)	Kapasite Capacity (-18 C° kW)	Fan Adet Fan Quantity	Hava Dedisi Air Flow 1400 d/d rpm (m <sup>3</sup> /h)	
PENUA-P - 1/2 - 32/28 - 6- 630- 2	110	33,00	37000	28120	19684	630	18000	
PENUA-P - 1/2 - 32/28 - 8- 630- 2	80		28120	21371	14960		2	20000
PENUA-P - 1/2 - 32/28 - 6- 630- 3	160		48000	36480	25536		3	27000
PENUA-P - 1/2 - 32/28 - 8- 630- 3	140	36480	27725	19407	30000			
PENUA-P - 1/2 - 32/28 - 6- 630- 4	210	64000	48640	34048	4			36000
PENUA-P - 1/2 - 32/28 - 8- 630- 4	180	48640	36966	25876		40000		
PENUA-P - 1/2 - 32/28 - 6- 630- 5	245	84,00	95000	72200	50540	5	45000	
PENUA-P - 1/2 - 32/28 - 8- 630- 5	270		72200	54872	38410		50000	

Model (PENUA-P)	Uzunluk Length (mm)	Genişlik Width (mm)	Yükseklik Height (mm)
PENUA-P - 1/2 - 32/28 - 6- 630- 2	2500	550	1100
PENUA-P - 1/2 - 32/28 - 8- 630- 2			
PENUA-P - 1/2 - 32/28 - 6- 630- 3	3500	550	1100
PENUA-P - 1/2 - 32/28 - 8- 630- 3			
PENUA-P - 1/2 - 32/28 - 6- 630- 4	4500	550	1100
PENUA-P - 1/2 - 32/28 - 8- 630- 4			
PENUA-P - 1/2 - 32/28 - 6- 630- 5	5500	550	1100
PENUA-P - 1/2 - 32/28 - 8- 630- 5			



TERMOFİN TERMİK CİHAZLAR ISI TRANSFER SANAYİ VE TİCARET.LİMİTED ŞİRKETİ

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