LEISTUNGSERKLÄRUNG

Ref.-Nr.: SPI_002

1. Eindeutiger Kenncode des Produkttyps:

   JOCO SpiraLine

   TA1-W = Wandausführung
   TA1-K = Standkonsole
   TA1-S = Selbststehend

   TA2-W = Wandausführung
   TA2-K = Standkonsole
   TA2-S = Selbststehend

   TA3-W = Wandausführung
   TA3-K = Standkonsole
   TA3-S = Selbststehend

   TR2-W = Wandausführung
   TR2-K = Standkonsole
   TR2-S = Selbststehend

   TR3-W = Wandausführung
   TR3-K = Standkonsole
   TR3-S = Selbststehend

   Jeweils in der Baulänge 500 – 6.000 mm
   Die Bauvarianten Wandausführung, Standkonsole, selbststehend, sind jeweils Leistungsgleich. Typen- und Artikelnummer: siehe Verpackung des Produkts

2. Verwendungszweck:

   In Heizsystemen in Gebäuden.

3. Hersteller:

   JOCO GmbH, Industriestraße 1, 77731 Willstätt

4. Bevollmächtigter:

   Nicht relevant

5. System(e) zur Bewertung und Überprüfung der Leistungsbeständigkeit:

   System 3
   Ausgenommen hiervon Brandverhalten nach System 4

6. a) Harmonisierte Norm:

EN 442-1:2014

b) Notifizierte Stelle:

NB 1015

7. Erklärte Leistungen:

Wesentliches Merkmal	Leistung	Harmonisierte techn. Spezifikation
Brandverhalten	A1 - nicht brennbar	EN 442-1:2014
Freisetzung gefährlicher Stoffe	nein.	
Druckdichtheit	Keine Undichtigkeit bei 1,3-fachem maximal zulässigem Betriebsdruck	
Druckfestigkeit	Kein Riss bei 1,69-fachem maximal zulässigem Betriebsdruck	
Maximal zulässiger Betriebsdruck	1.000 kPa	
Oberflächentemperatur	entspricht Wassertemperatur. max. 120 ° C zulässig	
Korrosionsbeständigkeit	keine Oberflächenkorrosion nach 100 h Feuchtigkeitsprüfung	
Beständigkeit gegen kleinere Stoßschädigungen	Stufe 0	EN ISO 2409:2013, Tab.1

Nennwärmeleistung [W] und Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie) nach EN442-1:2014 wie folgt je Typ und Baulänge:

Typ TA1-W/K/S 32x2x92 xxxx mm

TA1 = einreihig
Wand/Konsole/selbststehend
Kernrohr-∅ 32 mm x Wanddicke 2 mm, Aussen-∅ 92 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TA1 32x2x92	500	152	85	$\Phi =$	1,8271	$\times \Delta t^{1,1307}$	
TA1 32x2x92	600	182	102	$\Phi =$	2,1925	$\times \Delta t^{1,1307}$	
TA1 32x2x92	700	213	119	$\Phi =$	2,5579	$\times \Delta t^{1,1307}$	
TA1 32x2x92	800	243	136	$\Phi =$	2,9233	$\times \Delta t^{1,1307}$	
TA1 32x2x92	900	274	153	$\Phi =$	3,2887	$\times \Delta t^{1,1307}$	
TA1 32x2x92	1.000	304	170	$\Phi =$	3,6541	$\times \Delta t^{1,1307}$	
TA1 32x2x92	1.100	335	188	$\Phi =$	4,0195	$\times \Delta t^{1,1307}$	
TA1 32x2x92	1.200	365	205	$\Phi =$	4,3849	$\times \Delta t^{1,1307}$	
TA1 32x2x92	1.300	396	222	$\Phi =$	4,7503	$\times \Delta t^{1,1307}$	
TA1 32x2x92	1.400	426	239	$\Phi =$	5,1157	$\times \Delta t^{1,1307}$	
TA1 32x2x92	1.500	456	256	$\Phi =$	5,4812	$\times \Delta t^{1,1307}$	
TA1 32x2x92	1.600	487	273	$\Phi =$	5,8466	$\times \Delta t^{1,1307}$	

TA1 32x2x92	1.700	517	290	Φ =	6,2120	x Δt	1,1307
TA1 32x2x92	1.800	548	307	Φ =	6,5774	x Δt	1,1307
TA1 32x2x92	1.900	578	324	Φ =	6,9428	x Δt	1,1307
TA1 32x2x92	2.000	609	341	Φ =	7,3082	x Δt	1,1307
TA1 32x2x92	2.100	639	359	Φ =	7,6736	x Δt	1,1307
TA1 32x2x92	2.200	670	376	Φ =	8,0390	x Δt	1,1307
TA1 32x2x92	2.300	700	393	Φ =	8,4044	x Δt	1,1307
TA1 32x2x92	2.400	731	410	Φ =	8,7698	x Δt	1,1307
TA1 32x2x92	2.500	761	427	Φ =	9,1353	x Δt	1,1307
TA1 32x2x92	2.600	792	444	Φ =	9,5007	x Δt	1,1307
TA1 32x2x92	2.700	822	461	Φ =	9,8661	x Δt	1,1307
TA1 32x2x92	2.800	853	478	Φ =	10,2315	x Δt	1,1307
TA1 32x2x92	2.900	883	495	Φ =	10,5969	x Δt	1,1307
TA1 32x2x92	3.000	913	512	Φ =	10,9623	x Δt	1,1307
TA1 32x2x92	3.100	944	530	Φ =	11,3277	x Δt	1,1307
TA1 32x2x92	3.200	974	547	Φ =	11,6931	x Δt	1,1307
TA1 32x2x92	3.300	1005	564	Φ =	12,0585	x Δt	1,1307
TA1 32x2x92	3.400	1035	581	Φ =	12,4239	x Δt	1,1307
TA1 32x2x92	3.500	1066	598	Φ =	12,7894	x Δt	1,1307
TA1 32x2x92	3.600	1096	615	Φ =	13,1548	x Δt	1,1307
TA1 32x2x92	3.700	1127	632	Φ =	13,5202	x Δt	1,1307
TA1 32x2x92	3.800	1157	649	Φ =	13,8856	x Δt	1,1307
TA1 32x2x92	3.900	1188	666	Φ =	14,2510	x Δt	1,1307
TA1 32x2x92	4.000	1218	683	Φ =	14,6164	x Δt	1,1307
TA1 32x2x92	4.100	1249	701	Φ =	14,9818	x Δt	1,1307
TA1 32x2x92	4.200	1279	718	Φ =	15,3472	x Δt	1,1307
TA1 32x2x92	4.300	1310	735	Φ =	15,7126	x Δt	1,1307
TA1 32x2x92	4.400	1340	752	Φ =	16,0780	x Δt	1,1307
TA1 32x2x92	4.500	1370	769	Φ =	16,4435	x Δt	1,1307
TA1 32x2x92	4.600	1401	786	Φ =	16,8089	x Δt	1,1307
TA1 32x2x92	4.700	1431	803	Φ =	17,1743	x Δt	1,1307
TA1 32x2x92	4.800	1462	820	Φ =	17,5397	x Δt	1,1307
TA1 32x2x92	4.900	1492	837	Φ =	17,9051	x Δt	1,1307
TA1 32x2x92	5.000	1523	854	Φ =	18,2705	x Δt	1,1307
TA1 32x2x92	5.100	1553	872	Φ =	18,6359	x Δt	1,1307
TA1 32x2x92	5.200	1584	889	Φ =	19,0013	x Δt	1,1307
TA1 32x2x92	5.300	1614	906	Φ =	19,3667	x Δt	1,1307
TA1 32x2x92	5.400	1645	923	Φ =	19,7321	x Δt	1,1307
TA1 32x2x92	5.500	1675	940	Φ =	20,0976	x Δt	1,1307
TA1 32x2x92	5.600	1706	957	Φ =	20,4630	x Δt	1,1307
TA1 32x2x92	5.700	1736	974	Φ =	20,8284	x Δt	1,1307
TA1 32x2x92	5.800	1766	991	Φ =	21,1938	x Δt	1,1307
TA1 32x2x92	5.900	1797	1008	Φ =	21,5592	x Δt	1,1307
TA1 32x2x92	6.000	1827	1025	Φ =	21,9246	x Δt	1,1307

Typ TA1-W/K/S 57x2,5x137 xxxx mm

TA1 = einreihig
Wand/Konsole/selbststehend
Kernrohr-∅ 57 mm x Wanddicke 2,5 mm, Aussen-∅ 137 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TA1 57x2,5x137	500	179	100	Φ =	2,1544	x Δt	1,1307
TA1 57x2,5x137	600	215	120	Φ =	2,5852	x Δt	1,1307
TA1 57x2,5x137	700	251	141	Φ =	3,0161	x Δt	1,1307
TA1 57x2,5x137	800	287	161	Φ =	3,4470	x Δt	1,1307
TA1 57x2,5x137	900	323	181	Φ =	3,8778	x Δt	1,1307
TA1 57x2,5x137	1.000	359	201	Φ =	4,3087	x Δt	1,1307
TA1 57x2,5x137	1.100	395	221	Φ =	4,7396	x Δt	1,1307
TA1 57x2,5x137	1.200	431	241	Φ =	5,1704	x Δt	1,1307
TA1 57x2,5x137	1.300	466	262	Φ =	5,6013	x Δt	1,1307
TA1 57x2,5x137	1.400	502	282	Φ =	6,0322	x Δt	1,1307
TA1 57x2,5x137	1.500	538	302	Φ =	6,4631	x Δt	1,1307
TA1 57x2,5x137	1.600	574	322	Φ =	6,8939	x Δt	1,1307
TA1 57x2,5x137	1.700	610	342	Φ =	7,3248	x Δt	1,1307
TA1 57x2,5x137	1.800	646	362	Φ =	7,7557	x Δt	1,1307
TA1 57x2,5x137	1.900	682	383	Φ =	8,1865	x Δt	1,1307
TA1 57x2,5x137	2.000	718	403	Φ =	8,6174	x Δt	1,1307
TA1 57x2,5x137	2.100	754	423	Φ =	9,0483	x Δt	1,1307
TA1 57x2,5x137	2.200	790	443	Φ =	9,4791	x Δt	1,1307
TA1 57x2,5x137	2.300	826	463	Φ =	9,9100	x Δt	1,1307
TA1 57x2,5x137	2.400	862	483	Φ =	10,3409	x Δt	1,1307
TA1 57x2,5x137	2.500	898	504	Φ =	10,7718	x Δt	1,1307
TA1 57x2,5x137	2.600	933	524	Φ =	11,2026	x Δt	1,1307
TA1 57x2,5x137	2.700	969	544	Φ =	11,6335	x Δt	1,1307
TA1 57x2,5x137	2.800	1005	564	Φ =	12,0644	x Δt	1,1307
TA1 57x2,5x137	2.900	1041	584	Φ =	12,4952	x Δt	1,1307
TA1 57x2,5x137	3.000	1077	604	Φ =	12,9261	x Δt	1,1307
TA1 57x2,5x137	3.100	1113	625	Φ =	13,3570	x Δt	1,1307
TA1 57x2,5x137	3.200	1149	645	Φ =	13,7878	x Δt	1,1307
TA1 57x2,5x137	3.300	1185	665	Φ =	14,2187	x Δt	1,1307
TA1 57x2,5x137	3.400	1221	685	Φ =	14,6496	x Δt	1,1307
TA1 57x2,5x137	3.500	1257	705	Φ =	15,0805	x Δt	1,1307
TA1 57x2,5x137	3.600	1293	725	Φ =	15,5113	x Δt	1,1307
TA1 57x2,5x137	3.700	1329	745	Φ =	15,9422	x Δt	1,1307
TA1 57x2,5x137	3.800	1365	766	Φ =	16,3731	x Δt	1,1307
TA1 57x2,5x137	3.900	1400	786	Φ =	16,8039	x Δt	1,1307
TA1 57x2,5x137	4.000	1436	806	Φ =	17,2348	x Δt	1,1307
TA1 57x2,5x137	4.100	1472	826	Φ =	17,6657	x Δt	1,1307
TA1 57x2,5x137	4.200	1508	846	Φ =	18,0965	x Δt	1,1307
TA1 57x2,5x137	4.300	1544	866	Φ =	18,5274	x Δt	1,1307
TA1 57x2,5x137	4.400	1580	887	Φ =	18,9583	x Δt	1,1307
TA1 57x2,5x137	4.500	1616	907	Φ =	19,3892	x Δt	1,1307

TA1 57x2,5x137	4.600	1652	927	Φ =	19,8200	x Δt	1,1307
TA1 57x2,5x137	4.700	1688	947	Φ =	20,2509	x Δt	1,1307
TA1 57x2,5x137	4.800	1724	967	Φ =	20,6818	x Δt	1,1307
TA1 57x2,5x137	4.900	1760	987	Φ =	21,1126	x Δt	1,1307
TA1 57x2,5x137	5.000	1796	1008	Φ =	21,5435	x Δt	1,1307
TA1 57x2,5x137	5.100	1832	1028	Φ =	21,9744	x Δt	1,1307
TA1 57x2,5x137	5.200	1867	1048	Φ =	22,4052	x Δt	1,1307
TA1 57x2,5x137	5.300	1903	1068	Φ =	22,8361	x Δt	1,1307
TA1 57x2,5x137	5.400	1939	1088	Φ =	23,2670	x Δt	1,1307
TA1 57x2,5x137	5.500	1975	1108	Φ =	23,6979	x Δt	1,1307
TA1 57x2,5x137	5.600	2011	1129	Φ =	24,1287	x Δt	1,1307
TA1 57x2,5x137	5.700	2047	1149	Φ =	24,5596	x Δt	1,1307
TA1 57x2,5x137	5.800	2083	1169	Φ =	24,9905	x Δt	1,1307
TA1 57x2,5x137	5.900	2119	1189	Φ =	25,4213	x Δt	1,1307
TA1 57x2,5x137	6.000	2155	1209	Φ =	25,8522	x Δt	1,1307

Typ TA1-W/K/S 76x2,5x156 xxxx mm

TA1 = einreihig
Wand/Konsole/selbststehend
Kernrohr-∅ 76 mm x Wanddicke 2,5 mm, Aussen-∅ 156 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TA1 76x2,5x156	500	199	112	Φ =	2,3968	x Δt	1,1307
TA1 76x2,5x156	600	239	134	Φ =	2,8761	x Δt	1,1307
TA1 76x2,5x156	700	279	157	Φ =	3,3555	x Δt	1,1307
TA1 76x2,5x156	800	319	179	Φ =	3,8348	x Δt	1,1307
TA1 76x2,5x156	900	359	201	Φ =	4,3142	x Δt	1,1307
TA1 76x2,5x156	1.000	399	224	Φ =	4,7935	x Δt	1,1307
TA1 76x2,5x156	1.100	439	246	Φ =	5,2729	x Δt	1,1307
TA1 76x2,5x156	1.200	479	269	Φ =	5,7522	x Δt	1,1307
TA1 76x2,5x156	1.300	519	291	Φ =	6,2316	x Δt	1,1307
TA1 76x2,5x156	1.400	559	314	Φ =	6,7109	x Δt	1,1307
TA1 76x2,5x156	1.500	599	336	Φ =	7,1903	x Δt	1,1307
TA1 76x2,5x156	1.600	639	358	Φ =	7,6696	x Δt	1,1307
TA1 76x2,5x156	1.700	679	381	Φ =	8,1490	x Δt	1,1307
TA1 76x2,5x156	1.800	719	403	Φ =	8,6283	x Δt	1,1307
TA1 76x2,5x156	1.900	759	426	Φ =	9,1077	x Δt	1,1307
TA1 76x2,5x156	2.000	799	448	Φ =	9,5870	x Δt	1,1307
TA1 76x2,5x156	2.100	839	471	Φ =	10,0664	x Δt	1,1307
TA1 76x2,5x156	2.200	879	493	Φ =	10,5457	x Δt	1,1307
TA1 76x2,5x156	2.300	919	515	Φ =	11,0251	x Δt	1,1307
TA1 76x2,5x156	2.400	959	538	Φ =	11,5044	x Δt	1,1307
TA1 76x2,5x156	2.500	999	560	Φ =	11,9838	x Δt	1,1307
TA1 76x2,5x156	2.600	1039	583	Φ =	12,4631	x Δt	1,1307
TA1 76x2,5x156	2.700	1079	605	Φ =	12,9425	x Δt	1,1307
TA1 76x2,5x156	2.800	1119	628	Φ =	13,4218	x Δt	1,1307
TA1 76x2,5x156	2.900	1158	650	Φ =	13,9012	x Δt	1,1307

TA1 76x2,5x156	3.000	1198	672	Φ =	14,3805	x Δt	1,1307
TA1 76x2,5x156	3.100	1238	695	Φ =	14,8599	x Δt	1,1307
TA1 76x2,5x156	3.200	1278	717	Φ =	15,3392	x Δt	1,1307
TA1 76x2,5x156	3.300	1318	740	Φ =	15,8186	x Δt	1,1307
TA1 76x2,5x156	3.400	1358	762	Φ =	16,2979	x Δt	1,1307
TA1 76x2,5x156	3.500	1398	785	Φ =	16,7773	x Δt	1,1307
TA1 76x2,5x156	3.600	1438	807	Φ =	17,2566	x Δt	1,1307
TA1 76x2,5x156	3.700	1478	829	Φ =	17,7360	x Δt	1,1307
TA1 76x2,5x156	3.800	1518	852	Φ =	18,2153	x Δt	1,1307
TA1 76x2,5x156	3.900	1558	874	Φ =	18,6947	x Δt	1,1307
TA1 76x2,5x156	4.000	1598	897	Φ =	19,1740	x Δt	1,1307
TA1 76x2,5x156	4.100	1638	919	Φ =	19,6534	x Δt	1,1307
TA1 76x2,5x156	4.200	1678	942	Φ =	20,1327	x Δt	1,1307
TA1 76x2,5x156	4.300	1718	964	Φ =	20,6121	x Δt	1,1307
TA1 76x2,5x156	4.400	1758	986	Φ =	21,0914	x Δt	1,1307
TA1 76x2,5x156	4.500	1798	1009	Φ =	21,5708	x Δt	1,1307
TA1 76x2,5x156	4.600	1838	1031	Φ =	22,0501	x Δt	1,1307
TA1 76x2,5x156	4.700	1878	1054	Φ =	22,5295	x Δt	1,1307
TA1 76x2,5x156	4.800	1918	1076	Φ =	23,0088	x Δt	1,1307
TA1 76x2,5x156	4.900	1958	1099	Φ =	23,4882	x Δt	1,1307
TA1 76x2,5x156	5.000	1998	1121	Φ =	23,9675	x Δt	1,1307
TA1 76x2,5x156	5.100	2038	1143	Φ =	24,4469	x Δt	1,1307
TA1 76x2,5x156	5.200	2078	1166	Φ =	24,9262	x Δt	1,1307
TA1 76x2,5x156	5.300	2118	1188	Φ =	25,4056	x Δt	1,1307
TA1 76x2,5x156	5.400	2158	1211	Φ =	25,8849	x Δt	1,1307
TA1 76x2,5x156	5.500	2198	1233	Φ =	26,3643	x Δt	1,1307
TA1 76x2,5x156	5.600	2238	1256	Φ =	26,8436	x Δt	1,1307
TA1 76x2,5x156	5.700	2277	1278	Φ =	27,3230	x Δt	1,1307
TA1 76x2,5x156	5.800	2317	1300	Φ =	27,8023	x Δt	1,1307
TA1 76x2,5x156	5.900	2357	1323	Φ =	28,2817	x Δt	1,1307
TA1 76x2,5x156	6.000	2397	1345	Φ =	28,7610	x Δt	1,1307

Typ TA2-W/K/S 32x2x92 xxxx mm

TA2 = zweireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 32 mm x Wanddicke 2 mm, Aussen-∅ 92 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TA2 32x2x92	500	285	151	Φ =	2,1979	x Δt	1,2438
TA2 32x2x92	600	342	181	Φ =	2,6374	x Δt	1,2438
TA2 32x2x92	700	399	211	Φ =	3,0770	x Δt	1,2438
TA2 32x2x92	800	456	241	Φ =	3,5166	x Δt	1,2438
TA2 32x2x92	900	513	271	Φ =	3,9561	x Δt	1,2438
TA2 32x2x92	1.000	570	302	Φ =	4,3957	x Δt	1,2438
TA2 32x2x92	1.100	627	332	Φ =	4,8353	x Δt	1,2438
TA2 32x2x92	1.200	684	362	Φ =	5,2748	x Δt	1,2438
TA2 32x2x92	1.300	741	392	Φ =	5,7144	x Δt	1,2438

TA2 32x2x92	1.400	798	423	Φ =	6,1540	x Δt	1,2438
TA2 32x2x92	1.500	855	453	Φ =	6,5936	x Δt	1,2438
TA2 32x2x92	1.600	912	483	Φ =	7,0331	x Δt	1,2438
TA2 32x2x92	1.700	969	513	Φ =	7,4727	x Δt	1,2438
TA2 32x2x92	1.800	1026	543	Φ =	7,9123	x Δt	1,2438
TA2 32x2x92	1.900	1083	574	Φ =	8,3518	x Δt	1,2438
TA2 32x2x92	2.000	1140	604	Φ =	8,7914	x Δt	1,2438
TA2 32x2x92	2.100	1197	634	Φ =	9,2310	x Δt	1,2438
TA2 32x2x92	2.200	1254	664	Φ =	9,6705	x Δt	1,2438
TA2 32x2x92	2.300	1312	695	Φ =	10,1101	x Δt	1,2438
TA2 32x2x92	2.400	1369	725	Φ =	10,5497	x Δt	1,2438
TA2 32x2x92	2.500	1426	755	Φ =	10,9893	x Δt	1,2438
TA2 32x2x92	2.600	1483	785	Φ =	11,4288	x Δt	1,2438
TA2 32x2x92	2.700	1540	815	Φ =	11,8684	x Δt	1,2438
TA2 32x2x92	2.800	1597	846	Φ =	12,3080	x Δt	1,2438
TA2 32x2x92	2.900	1654	876	Φ =	12,7475	x Δt	1,2438
TA2 32x2x92	3.000	1711	906	Φ =	13,1871	x Δt	1,2438
TA2 32x2x92	3.100	1768	936	Φ =	13,6267	x Δt	1,2438
TA2 32x2x92	3.200	1825	966	Φ =	14,0662	x Δt	1,2438
TA2 32x2x92	3.300	1882	997	Φ =	14,5058	x Δt	1,2438
TA2 32x2x92	3.400	1939	1027	Φ =	14,9454	x Δt	1,2438
TA2 32x2x92	3.500	1996	1057	Φ =	15,3850	x Δt	1,2438
TA2 32x2x92	3.600	2053	1087	Φ =	15,8245	x Δt	1,2438
TA2 32x2x92	3.700	2110	1118	Φ =	16,2641	x Δt	1,2438
TA2 32x2x92	3.800	2167	1148	Φ =	16,7037	x Δt	1,2438
TA2 32x2x92	3.900	2224	1178	Φ =	17,1432	x Δt	1,2438
TA2 32x2x92	4.000	2281	1208	Φ =	17,5828	x Δt	1,2438
TA2 32x2x92	4.100	2338	1238	Φ =	18,0224	x Δt	1,2438
TA2 32x2x92	4.200	2395	1269	Φ =	18,4619	x Δt	1,2438
TA2 32x2x92	4.300	2452	1299	Φ =	18,9015	x Δt	1,2438
TA2 32x2x92	4.400	2509	1329	Φ =	19,3411	x Δt	1,2438
TA2 32x2x92	4.500	2566	1359	Φ =	19,7807	x Δt	1,2438
TA2 32x2x92	4.600	2624	1390	Φ =	20,2202	x Δt	1,2438
TA2 32x2x92	4.700	2681	1420	Φ =	20,6598	x Δt	1,2438
TA2 32x2x92	4.800	2738	1450	Φ =	21,0994	x Δt	1,2438
TA2 32x2x92	4.900	2795	1480	Φ =	21,5389	x Δt	1,2438
TA2 32x2x92	5.000	2852	1510	Φ =	21,9785	x Δt	1,2438
TA2 32x2x92	5.100	2909	1541	Φ =	22,4181	x Δt	1,2438
TA2 32x2x92	5.200	2966	1571	Φ =	22,8576	x Δt	1,2438
TA2 32x2x92	5.300	3023	1601	Φ =	23,2972	x Δt	1,2438
TA2 32x2x92	5.400	3080	1631	Φ =	23,7368	x Δt	1,2438
TA2 32x2x92	5.500	3137	1662	Φ =	24,1764	x Δt	1,2438
TA2 32x2x92	5.600	3194	1692	Φ =	24,6159	x Δt	1,2438
TA2 32x2x92	5.700	3251	1722	Φ =	25,0555	x Δt	1,2438
TA2 32x2x92	5.800	3308	1752	Φ =	25,4951	x Δt	1,2438
TA2 32x2x92	5.900	3365	1782	Φ =	25,9346	x Δt	1,2438
TA2 32x2x92	6.000	3422	1813	Φ =	26,3742	x Δt	1,2438

Typ TA2-W/K/S 57x2,5x137 xxxx mm

TA2 = zweireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 57 mm x Wanddicke 2,5 mm, Aussen-∅ 137 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TA2 57x2,5x137	500	309	164	Φ =	2,3878	x Δt	1,2438
TA2 57x2,5x137	600	371	196	Φ =	2,8654	x Δt	1,2438
TA2 57x2,5x137	700	433	229	Φ =	3,3429	x Δt	1,2438
TA2 57x2,5x137	800	495	262	Φ =	3,8205	x Δt	1,2438
TA2 57x2,5x137	900	557	295	Φ =	4,2980	x Δt	1,2438
TA2 57x2,5x137	1.000	619	328	Φ =	4,7756	x Δt	1,2438
TA2 57x2,5x137	1.100	681	361	Φ =	5,2532	x Δt	1,2438
TA2 57x2,5x137	1.200	743	393	Φ =	5,7307	x Δt	1,2438
TA2 57x2,5x137	1.300	805	426	Φ =	6,2083	x Δt	1,2438
TA2 57x2,5x137	1.400	867	459	Φ =	6,6858	x Δt	1,2438
TA2 57x2,5x137	1.500	929	492	Φ =	7,1634	x Δt	1,2438
TA2 57x2,5x137	1.600	991	525	Φ =	7,6410	x Δt	1,2438
TA2 57x2,5x137	1.700	1053	558	Φ =	8,1185	x Δt	1,2438
TA2 57x2,5x137	1.800	1115	590	Φ =	8,5961	x Δt	1,2438
TA2 57x2,5x137	1.900	1177	623	Φ =	9,0736	x Δt	1,2438
TA2 57x2,5x137	2.000	1239	656	Φ =	9,5512	x Δt	1,2438
TA2 57x2,5x137	2.100	1301	689	Φ =	10,0288	x Δt	1,2438
TA2 57x2,5x137	2.200	1363	722	Φ =	10,5063	x Δt	1,2438
TA2 57x2,5x137	2.300	1425	755	Φ =	10,9839	x Δt	1,2438
TA2 57x2,5x137	2.400	1487	787	Φ =	11,4614	x Δt	1,2438
TA2 57x2,5x137	2.500	1549	820	Φ =	11,9390	x Δt	1,2438
TA2 57x2,5x137	2.600	1611	853	Φ =	12,4166	x Δt	1,2438
TA2 57x2,5x137	2.700	1673	886	Φ =	12,8941	x Δt	1,2438
TA2 57x2,5x137	2.800	1735	919	Φ =	13,3717	x Δt	1,2438
TA2 57x2,5x137	2.900	1797	952	Φ =	13,8492	x Δt	1,2438
TA2 57x2,5x137	3.000	1859	984	Φ =	14,3268	x Δt	1,2438
TA2 57x2,5x137	3.100	1921	1017	Φ =	14,8044	x Δt	1,2438
TA2 57x2,5x137	3.200	1983	1050	Φ =	15,2819	x Δt	1,2438
TA2 57x2,5x137	3.300	2045	1083	Φ =	15,7595	x Δt	1,2438
TA2 57x2,5x137	3.400	2107	1116	Φ =	16,2370	x Δt	1,2438
TA2 57x2,5x137	3.500	2169	1149	Φ =	16,7146	x Δt	1,2438
TA2 57x2,5x137	3.600	2231	1181	Φ =	17,1922	x Δt	1,2438
TA2 57x2,5x137	3.700	2293	1214	Φ =	17,6697	x Δt	1,2438
TA2 57x2,5x137	3.800	2354	1247	Φ =	18,1473	x Δt	1,2438
TA2 57x2,5x137	3.900	2416	1280	Φ =	18,6248	x Δt	1,2438
TA2 57x2,5x137	4.000	2478	1313	Φ =	19,1024	x Δt	1,2438
TA2 57x2,5x137	4.100	2540	1346	Φ =	19,5800	x Δt	1,2438
TA2 57x2,5x137	4.200	2602	1378	Φ =	20,0575	x Δt	1,2438
TA2 57x2,5x137	4.300	2664	1411	Φ =	20,5351	x Δt	1,2438
TA2 57x2,5x137	4.400	2726	1444	Φ =	21,0126	x Δt	1,2438
TA2 57x2,5x137	4.500	2788	1477	Φ =	21,4902	x Δt	1,2438

TA2 57x2,5x137	4.600	2850	1510	Φ =	21,9678	x Δt	1,2438
TA2 57x2,5x137	4.700	2912	1543	Φ =	22,4453	x Δt	1,2438
TA2 57x2,5x137	4.800	2974	1575	Φ =	22,9229	x Δt	1,2438
TA2 57x2,5x137	4.900	3036	1608	Φ =	23,4004	x Δt	1,2438
TA2 57x2,5x137	5.000	3098	1641	Φ =	23,8780	x Δt	1,2438
TA2 57x2,5x137	5.100	3160	1674	Φ =	24,3556	x Δt	1,2438
TA2 57x2,5x137	5.200	3222	1707	Φ =	24,8331	x Δt	1,2438
TA2 57x2,5x137	5.300	3284	1739	Φ =	25,3107	x Δt	1,2438
TA2 57x2,5x137	5.400	3346	1772	Φ =	25,7882	x Δt	1,2438
TA2 57x2,5x137	5.500	3408	1805	Φ =	26,2658	x Δt	1,2438
TA2 57x2,5x137	5.600	3470	1838	Φ =	26,7434	x Δt	1,2438
TA2 57x2,5x137	5.700	3532	1871	Φ =	27,2209	x Δt	1,2438
TA2 57x2,5x137	5.800	3594	1904	Φ =	27,6985	x Δt	1,2438
TA2 57x2,5x137	5.900	3656	1936	Φ =	28,1760	x Δt	1,2438
TA2 57x2,5x137	6.000	3718	1969	Φ =	28,6536	x Δt	1,2438

Typ TA2-W/K/S 76x2,5x156 xxxx mm

TA2 = zweireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 76 mm x Wanddicke 2,5 mm, Aussen-∅ 156 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TA2 76x2,5x156	500	330	175	Φ =	2,5488	x Δt	1,2438
TA2 76x2,5x156	600	396	210	Φ =	3,0585	x Δt	1,2438
TA2 76x2,5x156	700	463	245	Φ =	3,5683	x Δt	1,2438
TA2 76x2,5x156	800	529	280	Φ =	4,0780	x Δt	1,2438
TA2 76x2,5x156	900	595	315	Φ =	4,5878	x Δt	1,2438
TA2 76x2,5x156	1.000	661	350	Φ =	5,0975	x Δt	1,2438
TA2 76x2,5x156	1.100	727	385	Φ =	5,6073	x Δt	1,2438
TA2 76x2,5x156	1.200	793	420	Φ =	6,1170	x Δt	1,2438
TA2 76x2,5x156	1.300	859	455	Φ =	6,6268	x Δt	1,2438
TA2 76x2,5x156	1.400	926	490	Φ =	7,1365	x Δt	1,2438
TA2 76x2,5x156	1.500	992	525	Φ =	7,6463	x Δt	1,2438
TA2 76x2,5x156	1.600	1058	560	Φ =	8,1560	x Δt	1,2438
TA2 76x2,5x156	1.700	1124	595	Φ =	8,6658	x Δt	1,2438
TA2 76x2,5x156	1.800	1190	630	Φ =	9,1755	x Δt	1,2438
TA2 76x2,5x156	1.900	1256	665	Φ =	9,6853	x Δt	1,2438
TA2 76x2,5x156	2.000	1323	700	Φ =	10,1950	x Δt	1,2438
TA2 76x2,5x156	2.100	1389	735	Φ =	10,7048	x Δt	1,2438
TA2 76x2,5x156	2.200	1455	770	Φ =	11,2145	x Δt	1,2438
TA2 76x2,5x156	2.300	1521	805	Φ =	11,7243	x Δt	1,2438
TA2 76x2,5x156	2.400	1587	841	Φ =	12,2340	x Δt	1,2438
TA2 76x2,5x156	2.500	1653	876	Φ =	12,7438	x Δt	1,2438
TA2 76x2,5x156	2.600	1719	911	Φ =	13,2535	x Δt	1,2438
TA2 76x2,5x156	2.700	1786	946	Φ =	13,7633	x Δt	1,2438
TA2 76x2,5x156	2.800	1852	981	Φ =	14,2730	x Δt	1,2438
TA2 76x2,5x156	2.900	1918	1016	Φ =	14,7828	x Δt	1,2438

TA2 76x2,5x156	3.000	1984	1051	Φ =	15,2925	x Δt	1,2438
TA2 76x2,5x156	3.100	2050	1086	Φ =	15,8023	x Δt	1,2438
TA2 76x2,5x156	3.200	2116	1121	Φ =	16,3120	x Δt	1,2438
TA2 76x2,5x156	3.300	2182	1156	Φ =	16,8218	x Δt	1,2438
TA2 76x2,5x156	3.400	2249	1191	Φ =	17,3315	x Δt	1,2438
TA2 76x2,5x156	3.500	2315	1226	Φ =	17,8413	x Δt	1,2438
TA2 76x2,5x156	3.600	2381	1261	Φ =	18,3510	x Δt	1,2438
TA2 76x2,5x156	3.700	2447	1296	Φ =	18,8608	x Δt	1,2438
TA2 76x2,5x156	3.800	2513	1331	Φ =	19,3705	x Δt	1,2438
TA2 76x2,5x156	3.900	2579	1366	Φ =	19,8803	x Δt	1,2438
TA2 76x2,5x156	4.000	2646	1401	Φ =	20,3900	x Δt	1,2438
TA2 76x2,5x156	4.100	2712	1436	Φ =	20,8998	x Δt	1,2438
TA2 76x2,5x156	4.200	2778	1471	Φ =	21,4095	x Δt	1,2438
TA2 76x2,5x156	4.300	2844	1506	Φ =	21,9193	x Δt	1,2438
TA2 76x2,5x156	4.400	2910	1541	Φ =	22,4290	x Δt	1,2438
TA2 76x2,5x156	4.500	2976	1576	Φ =	22,9388	x Δt	1,2438
TA2 76x2,5x156	4.600	3042	1611	Φ =	23,4485	x Δt	1,2438
TA2 76x2,5x156	4.700	3109	1647	Φ =	23,9583	x Δt	1,2438
TA2 76x2,5x156	4.800	3175	1682	Φ =	24,4680	x Δt	1,2438
TA2 76x2,5x156	4.900	3241	1717	Φ =	24,9778	x Δt	1,2438
TA2 76x2,5x156	5.000	3307	1752	Φ =	25,4875	x Δt	1,2438
TA2 76x2,5x156	5.100	3373	1787	Φ =	25,9973	x Δt	1,2438
TA2 76x2,5x156	5.200	3439	1822	Φ =	26,5070	x Δt	1,2438
TA2 76x2,5x156	5.300	3506	1857	Φ =	27,0168	x Δt	1,2438
TA2 76x2,5x156	5.400	3572	1892	Φ =	27,5265	x Δt	1,2438
TA2 76x2,5x156	5.500	3638	1927	Φ =	28,0363	x Δt	1,2438
TA2 76x2,5x156	5.600	3704	1962	Φ =	28,5460	x Δt	1,2438
TA2 76x2,5x156	5.700	3770	1997	Φ =	29,0558	x Δt	1,2438
TA2 76x2,5x156	5.800	3836	2032	Φ =	29,5655	x Δt	1,2438
TA2 76x2,5x156	5.900	3902	2067	Φ =	30,0753	x Δt	1,2438
TA2 76x2,5x156	6.000	3969	2102	Φ =	30,5850	x Δt	1,2438

Typ TA3-W/K/S 32x2x92 xxxx mm

TA3 = dreireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 32 mm x Wanddicke 2 mm, Aussen-∅ 92 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TA3 32x2x92	500	435	229	Φ =	3,2801	x Δt	1,2495
TA3 32x2x92	600	522	275	Φ =	3,9361	x Δt	1,2495
TA3 32x2x92	700	609	321	Φ =	4,5921	x Δt	1,2495
TA3 32x2x92	800	696	367	Φ =	5,2481	x Δt	1,2495
TA3 32x2x92	900	783	413	Φ =	5,9041	x Δt	1,2495
TA3 32x2x92	1.000	870	459	Φ =	6,5601	x Δt	1,2495
TA3 32x2x92	1.100	957	505	Φ =	7,2161	x Δt	1,2495
TA3 32x2x92	1.200	1044	551	Φ =	7,8721	x Δt	1,2495
TA3 32x2x92	1.300	1131	597	Φ =	8,5281	x Δt	1,2495

TA3 32x2x92	1.400	1218	643	$\Phi =$	9,1841	$\times \Delta t$	^{1,2495}
TA3 32x2x92	1.500	1305	689	$\Phi =$	9,8402	$\times \Delta t$	^{1,2495}
TA3 32x2x92	1.600	1392	735	$\Phi =$	10,4962	$\times \Delta t$	^{1,2495}
TA3 32x2x92	1.700	1479	781	$\Phi =$	11,1522	$\times \Delta t$	^{1,2495}
TA3 32x2x92	1.800	1566	827	$\Phi =$	11,8082	$\times \Delta t$	^{1,2495}
TA3 32x2x92	1.900	1653	873	$\Phi =$	12,4642	$\times \Delta t$	^{1,2495}
TA3 32x2x92	2.000	1741	919	$\Phi =$	13,1202	$\times \Delta t$	^{1,2495}
TA3 32x2x92	2.100	1828	965	$\Phi =$	13,7762	$\times \Delta t$	^{1,2495}
TA3 32x2x92	2.200	1915	1011	$\Phi =$	14,4322	$\times \Delta t$	^{1,2495}
TA3 32x2x92	2.300	2002	1057	$\Phi =$	15,0882	$\times \Delta t$	^{1,2495}
TA3 32x2x92	2.400	2089	1103	$\Phi =$	15,7442	$\times \Delta t$	^{1,2495}
TA3 32x2x92	2.500	2176	1149	$\Phi =$	16,4003	$\times \Delta t$	^{1,2495}
TA3 32x2x92	2.600	2263	1195	$\Phi =$	17,0563	$\times \Delta t$	^{1,2495}
TA3 32x2x92	2.700	2350	1241	$\Phi =$	17,7123	$\times \Delta t$	^{1,2495}
TA3 32x2x92	2.800	2437	1287	$\Phi =$	18,3683	$\times \Delta t$	^{1,2495}
TA3 32x2x92	2.900	2524	1333	$\Phi =$	19,0243	$\times \Delta t$	^{1,2495}
TA3 32x2x92	3.000	2611	1379	$\Phi =$	19,6803	$\times \Delta t$	^{1,2495}
TA3 32x2x92	3.100	2698	1425	$\Phi =$	20,3363	$\times \Delta t$	^{1,2495}
TA3 32x2x92	3.200	2785	1471	$\Phi =$	20,9923	$\times \Delta t$	^{1,2495}
TA3 32x2x92	3.300	2872	1517	$\Phi =$	21,6483	$\times \Delta t$	^{1,2495}
TA3 32x2x92	3.400	2959	1563	$\Phi =$	22,3043	$\times \Delta t$	^{1,2495}
TA3 32x2x92	3.500	3046	1609	$\Phi =$	22,9604	$\times \Delta t$	^{1,2495}
TA3 32x2x92	3.600	3133	1655	$\Phi =$	23,6164	$\times \Delta t$	^{1,2495}
TA3 32x2x92	3.700	3220	1701	$\Phi =$	24,2724	$\times \Delta t$	^{1,2495}
TA3 32x2x92	3.800	3307	1747	$\Phi =$	24,9284	$\times \Delta t$	^{1,2495}
TA3 32x2x92	3.900	3394	1793	$\Phi =$	25,5844	$\times \Delta t$	^{1,2495}
TA3 32x2x92	4.000	3482	1839	$\Phi =$	26,2404	$\times \Delta t$	^{1,2495}
TA3 32x2x92	4.100	3569	1885	$\Phi =$	26,8964	$\times \Delta t$	^{1,2495}
TA3 32x2x92	4.200	3656	1931	$\Phi =$	27,5524	$\times \Delta t$	^{1,2495}
TA3 32x2x92	4.300	3743	1977	$\Phi =$	28,2084	$\times \Delta t$	^{1,2495}
TA3 32x2x92	4.400	3830	2023	$\Phi =$	28,8644	$\times \Delta t$	^{1,2495}
TA3 32x2x92	4.500	3917	2069	$\Phi =$	29,5205	$\times \Delta t$	^{1,2495}
TA3 32x2x92	4.600	4004	2115	$\Phi =$	30,1765	$\times \Delta t$	^{1,2495}
TA3 32x2x92	4.700	4091	2161	$\Phi =$	30,8325	$\times \Delta t$	^{1,2495}
TA3 32x2x92	4.800	4178	2207	$\Phi =$	31,4885	$\times \Delta t$	^{1,2495}
TA3 32x2x92	4.900	4265	2253	$\Phi =$	32,1445	$\times \Delta t$	^{1,2495}
TA3 32x2x92	5.000	4352	2299	$\Phi =$	32,8005	$\times \Delta t$	^{1,2495}
TA3 32x2x92	5.100	4439	2345	$\Phi =$	33,4565	$\times \Delta t$	^{1,2495}
TA3 32x2x92	5.200	4526	2390	$\Phi =$	34,1125	$\times \Delta t$	^{1,2495}
TA3 32x2x92	5.300	4613	2436	$\Phi =$	34,7685	$\times \Delta t$	^{1,2495}
TA3 32x2x92	5.400	4700	2482	$\Phi =$	35,4245	$\times \Delta t$	^{1,2495}
TA3 32x2x92	5.500	4787	2528	$\Phi =$	36,0806	$\times \Delta t$	^{1,2495}
TA3 32x2x92	5.600	4874	2574	$\Phi =$	36,7366	$\times \Delta t$	^{1,2495}
TA3 32x2x92	5.700	4961	2620	$\Phi =$	37,3926	$\times \Delta t$	^{1,2495}
TA3 32x2x92	5.800	5048	2666	$\Phi =$	38,0486	$\times \Delta t$	^{1,2495}
TA3 32x2x92	5.900	5136	2712	$\Phi =$	38,7046	$\times \Delta t$	^{1,2495}
TA3 32x2x92	6.000	5223	2758	$\Phi =$	39,3606	$\times \Delta t$	^{1,2495}

Typ TA3-W/K/S 57x2,5x137 xxxx mm

TA3 = dreireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 57 mm x Wanddicke 2,5 mm, Aussen-∅ 137 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TA3 57x2,5x137	500	428	226	Φ =	3,2283	x Δt	1,2495
TA3 57x2,5x137	600	514	271	Φ =	3,8740	x Δt	1,2495
TA3 57x2,5x137	700	599	316	Φ =	4,5196	x Δt	1,2495
TA3 57x2,5x137	800	685	362	Φ =	5,1653	x Δt	1,2495
TA3 57x2,5x137	900	771	407	Φ =	5,8109	x Δt	1,2495
TA3 57x2,5x137	1.000	856	452	Φ =	6,4566	x Δt	1,2495
TA3 57x2,5x137	1.100	942	497	Φ =	7,1023	x Δt	1,2495
TA3 57x2,5x137	1.200	1028	543	Φ =	7,7479	x Δt	1,2495
TA3 57x2,5x137	1.300	1113	588	Φ =	8,3936	x Δt	1,2495
TA3 57x2,5x137	1.400	1199	633	Φ =	9,0392	x Δt	1,2495
TA3 57x2,5x137	1.500	1285	678	Φ =	9,6849	x Δt	1,2495
TA3 57x2,5x137	1.600	1370	724	Φ =	10,3306	x Δt	1,2495
TA3 57x2,5x137	1.700	1456	769	Φ =	10,9762	x Δt	1,2495
TA3 57x2,5x137	1.800	1542	814	Φ =	11,6219	x Δt	1,2495
TA3 57x2,5x137	1.900	1627	859	Φ =	12,2675	x Δt	1,2495
TA3 57x2,5x137	2.000	1713	905	Φ =	12,9132	x Δt	1,2495
TA3 57x2,5x137	2.100	1799	950	Φ =	13,5589	x Δt	1,2495
TA3 57x2,5x137	2.200	1884	995	Φ =	14,2045	x Δt	1,2495
TA3 57x2,5x137	2.300	1970	1040	Φ =	14,8502	x Δt	1,2495
TA3 57x2,5x137	2.400	2056	1086	Φ =	15,4958	x Δt	1,2495
TA3 57x2,5x137	2.500	2141	1131	Φ =	16,1415	x Δt	1,2495
TA3 57x2,5x137	2.600	2227	1176	Φ =	16,7872	x Δt	1,2495
TA3 57x2,5x137	2.700	2313	1221	Φ =	17,4328	x Δt	1,2495
TA3 57x2,5x137	2.800	2398	1267	Φ =	18,0785	x Δt	1,2495
TA3 57x2,5x137	2.900	2484	1312	Φ =	18,7241	x Δt	1,2495
TA3 57x2,5x137	3.000	2570	1357	Φ =	19,3698	x Δt	1,2495
TA3 57x2,5x137	3.100	2656	1402	Φ =	20,0155	x Δt	1,2495
TA3 57x2,5x137	3.200	2741	1448	Φ =	20,6611	x Δt	1,2495
TA3 57x2,5x137	3.300	2827	1493	Φ =	21,3068	x Δt	1,2495
TA3 57x2,5x137	3.400	2913	1538	Φ =	21,9524	x Δt	1,2495
TA3 57x2,5x137	3.500	2998	1583	Φ =	22,5981	x Δt	1,2495
TA3 57x2,5x137	3.600	3084	1629	Φ =	23,2438	x Δt	1,2495
TA3 57x2,5x137	3.700	3170	1674	Φ =	23,8894	x Δt	1,2495
TA3 57x2,5x137	3.800	3255	1719	Φ =	24,5351	x Δt	1,2495
TA3 57x2,5x137	3.900	3341	1764	Φ =	25,1807	x Δt	1,2495
TA3 57x2,5x137	4.000	3427	1810	Φ =	25,8264	x Δt	1,2495
TA3 57x2,5x137	4.100	3512	1855	Φ =	26,4721	x Δt	1,2495
TA3 57x2,5x137	4.200	3598	1900	Φ =	27,1177	x Δt	1,2495
TA3 57x2,5x137	4.300	3684	1945	Φ =	27,7634	x Δt	1,2495
TA3 57x2,5x137	4.400	3769	1991	Φ =	28,4090	x Δt	1,2495
TA3 57x2,5x137	4.500	3855	2036	Φ =	29,0547	x Δt	1,2495

TA3 57x2,5x137	4.600	3941	2081	Φ =	29,7004	x Δt	1,2495
TA3 57x2,5x137	4.700	4026	2126	Φ =	30,3460	x Δt	1,2495
TA3 57x2,5x137	4.800	4112	2172	Φ =	30,9917	x Δt	1,2495
TA3 57x2,5x137	4.900	4198	2217	Φ =	31,6373	x Δt	1,2495
TA3 57x2,5x137	5.000	4283	2262	Φ =	32,2830	x Δt	1,2495
TA3 57x2,5x137	5.100	4369	2308	Φ =	32,9287	x Δt	1,2495
TA3 57x2,5x137	5.200	4455	2353	Φ =	33,5743	x Δt	1,2495
TA3 57x2,5x137	5.300	4540	2398	Φ =	34,2200	x Δt	1,2495
TA3 57x2,5x137	5.400	4626	2443	Φ =	34,8656	x Δt	1,2495
TA3 57x2,5x137	5.500	4712	2489	Φ =	35,5113	x Δt	1,2495
TA3 57x2,5x137	5.600	4797	2534	Φ =	36,1570	x Δt	1,2495
TA3 57x2,5x137	5.700	4883	2579	Φ =	36,8026	x Δt	1,2495
TA3 57x2,5x137	5.800	4969	2624	Φ =	37,4483	x Δt	1,2495
TA3 57x2,5x137	5.900	5054	2670	Φ =	38,0939	x Δt	1,2495
TA3 57x2,5x137	6.000	5140	2715	Φ =	38,7396	x Δt	1,2495

Typ TA3-W/K/S 76x2,5x156 xxxx mm

TA3 = dreireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 76 mm x Wanddicke 2,5 mm, Aussen-∅ 156 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TA3 76x2,5x156	500	483	248	Φ =	2,9608	x Δt	1,3028
TA3 76x2,5x156	600	580	298	Φ =	3,5529	x Δt	1,3028
TA3 76x2,5x156	700	677	348	Φ =	4,1451	x Δt	1,3028
TA3 76x2,5x156	800	774	398	Φ =	4,7372	x Δt	1,3028
TA3 76x2,5x156	900	871	447	Φ =	5,3294	x Δt	1,3028
TA3 76x2,5x156	1.000	967	497	Φ =	5,9215	x Δt	1,3028
TA3 76x2,5x156	1.100	1064	547	Φ =	6,5137	x Δt	1,3028
TA3 76x2,5x156	1.200	1161	597	Φ =	7,1058	x Δt	1,3028
TA3 76x2,5x156	1.300	1258	646	Φ =	7,6980	x Δt	1,3028
TA3 76x2,5x156	1.400	1355	696	Φ =	8,2901	x Δt	1,3028
TA3 76x2,5x156	1.500	1451	746	Φ =	8,8823	x Δt	1,3028
TA3 76x2,5x156	1.600	1548	796	Φ =	9,4744	x Δt	1,3028
TA3 76x2,5x156	1.700	1645	845	Φ =	10,0666	x Δt	1,3028
TA3 76x2,5x156	1.800	1742	895	Φ =	10,6587	x Δt	1,3028
TA3 76x2,5x156	1.900	1839	945	Φ =	11,2509	x Δt	1,3028
TA3 76x2,5x156	2.000	1935	995	Φ =	11,8430	x Δt	1,3028
TA3 76x2,5x156	2.100	2032	1044	Φ =	12,4352	x Δt	1,3028
TA3 76x2,5x156	2.200	2129	1094	Φ =	13,0273	x Δt	1,3028
TA3 76x2,5x156	2.300	2226	1144	Φ =	13,6195	x Δt	1,3028
TA3 76x2,5x156	2.400	2323	1194	Φ =	14,2116	x Δt	1,3028
TA3 76x2,5x156	2.500	2419	1243	Φ =	14,8038	x Δt	1,3028
TA3 76x2,5x156	2.600	2516	1293	Φ =	15,3959	x Δt	1,3028
TA3 76x2,5x156	2.700	2613	1343	Φ =	15,9881	x Δt	1,3028
TA3 76x2,5x156	2.800	2710	1393	Φ =	16,5802	x Δt	1,3028
TA3 76x2,5x156	2.900	2807	1442	Φ =	17,1724	x Δt	1,3028

TA3 76x2,5x156	3.000	2903	1492	Φ =	17,7645	x Δt	1,3028
TA3 76x2,5x156	3.100	3000	1542	Φ =	18,3567	x Δt	1,3028
TA3 76x2,5x156	3.200	3097	1592	Φ =	18,9488	x Δt	1,3028
TA3 76x2,5x156	3.300	3194	1641	Φ =	19,5410	x Δt	1,3028
TA3 76x2,5x156	3.400	3291	1691	Φ =	20,1331	x Δt	1,3028
TA3 76x2,5x156	3.500	3387	1741	Φ =	20,7253	x Δt	1,3028
TA3 76x2,5x156	3.600	3484	1791	Φ =	21,3174	x Δt	1,3028
TA3 76x2,5x156	3.700	3581	1840	Φ =	21,9096	x Δt	1,3028
TA3 76x2,5x156	3.800	3678	1890	Φ =	22,5017	x Δt	1,3028
TA3 76x2,5x156	3.900	3774	1940	Φ =	23,0939	x Δt	1,3028
TA3 76x2,5x156	4.000	3871	1990	Φ =	23,6860	x Δt	1,3028
TA3 76x2,5x156	4.100	3968	2039	Φ =	24,2782	x Δt	1,3028
TA3 76x2,5x156	4.200	4065	2089	Φ =	24,8703	x Δt	1,3028
TA3 76x2,5x156	4.300	4162	2139	Φ =	25,4625	x Δt	1,3028
TA3 76x2,5x156	4.400	4258	2189	Φ =	26,0546	x Δt	1,3028
TA3 76x2,5x156	4.500	4355	2238	Φ =	26,6468	x Δt	1,3028
TA3 76x2,5x156	4.600	4452	2288	Φ =	27,2389	x Δt	1,3028
TA3 76x2,5x156	4.700	4549	2338	Φ =	27,8311	x Δt	1,3028
TA3 76x2,5x156	4.800	4646	2388	Φ =	28,4232	x Δt	1,3028
TA3 76x2,5x156	4.900	4742	2437	Φ =	29,0154	x Δt	1,3028
TA3 76x2,5x156	5.000	4839	2487	Φ =	29,6075	x Δt	1,3028
TA3 76x2,5x156	5.100	4936	2537	Φ =	30,1997	x Δt	1,3028
TA3 76x2,5x156	5.200	5033	2587	Φ =	30,7918	x Δt	1,3028
TA3 76x2,5x156	5.300	5130	2636	Φ =	31,3840	x Δt	1,3028
TA3 76x2,5x156	5.400	5226	2686	Φ =	31,9761	x Δt	1,3028
TA3 76x2,5x156	5.500	5323	2736	Φ =	32,5683	x Δt	1,3028
TA3 76x2,5x156	5.600	5420	2786	Φ =	33,1604	x Δt	1,3028
TA3 76x2,5x156	5.700	5517	2835	Φ =	33,7526	x Δt	1,3028
TA3 76x2,5x156	5.800	5614	2885	Φ =	34,3447	x Δt	1,3028
TA3 76x2,5x156	5.900	5710	2935	Φ =	34,9369	x Δt	1,3028
TA3 76x2,5x156	6.000	5807	2985	Φ =	35,5290	x Δt	1,3028

Typ TR2-W/K/S 32x2x92 xxxx mm

TR2 = zweireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 32 mm x Wanddicke 2 mm, Aussen-∅ 92 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TR2 32x2x92	500	303	182	Φ =	6,0705	x Δt	1,0000
TR2 32x2x92	600	364	218	Φ =	7,2845	x Δt	1,0000
TR2 32x2x92	700	424	254	Φ =	8,4986	x Δt	1,0000
TR2 32x2x92	800	485	291	Φ =	9,7127	x Δt	1,0000
TR2 32x2x92	900	546	327	Φ =	10,9268	x Δt	1,0000
TR2 32x2x92	1.000	607	364	Φ =	12,1409	x Δt	1,0000
TR2 32x2x92	1.100	667	400	Φ =	13,3550	x Δt	1,0000
TR2 32x2x92	1.200	728	437	Φ =	14,5691	x Δt	1,0000
TR2 32x2x92	1.300	789	473	Φ =	15,7832	x Δt	1,0000

TR2 32x2x92	1.400	849	509	$\Phi =$	16,9973	x Δt	1,0000
TR2 32x2x92	1.500	910	546	$\Phi =$	18,2114	x Δt	1,0000
TR2 32x2x92	1.600	971	582	$\Phi =$	19,4254	x Δt	1,0000
TR2 32x2x92	1.700	1031	619	$\Phi =$	20,6395	x Δt	1,0000
TR2 32x2x92	1.800	1092	655	$\Phi =$	21,8536	x Δt	1,0000
TR2 32x2x92	1.900	1153	692	$\Phi =$	23,0677	x Δt	1,0000
TR2 32x2x92	2.000	1214	728	$\Phi =$	24,2818	x Δt	1,0000
TR2 32x2x92	2.100	1274	764	$\Phi =$	25,4959	x Δt	1,0000
TR2 32x2x92	2.200	1335	801	$\Phi =$	26,7100	x Δt	1,0000
TR2 32x2x92	2.300	1396	837	$\Phi =$	27,9241	x Δt	1,0000
TR2 32x2x92	2.400	1456	874	$\Phi =$	29,1382	x Δt	1,0000
TR2 32x2x92	2.500	1517	910	$\Phi =$	30,3523	x Δt	1,0000
TR2 32x2x92	2.600	1578	946	$\Phi =$	31,5663	x Δt	1,0000
TR2 32x2x92	2.700	1639	983	$\Phi =$	32,7804	x Δt	1,0000
TR2 32x2x92	2.800	1699	1019	$\Phi =$	33,9945	x Δt	1,0000
TR2 32x2x92	2.900	1760	1056	$\Phi =$	35,2086	x Δt	1,0000
TR2 32x2x92	3.000	1821	1092	$\Phi =$	36,4227	x Δt	1,0000
TR2 32x2x92	3.100	1881	1129	$\Phi =$	37,6368	x Δt	1,0000
TR2 32x2x92	3.200	1942	1165	$\Phi =$	38,8509	x Δt	1,0000
TR2 32x2x92	3.300	2003	1201	$\Phi =$	40,0650	x Δt	1,0000
TR2 32x2x92	3.400	2063	1238	$\Phi =$	41,2791	x Δt	1,0000
TR2 32x2x92	3.500	2124	1274	$\Phi =$	42,4932	x Δt	1,0000
TR2 32x2x92	3.600	2185	1311	$\Phi =$	43,7072	x Δt	1,0000
TR2 32x2x92	3.700	2246	1347	$\Phi =$	44,9213	x Δt	1,0000
TR2 32x2x92	3.800	2306	1384	$\Phi =$	46,1354	x Δt	1,0000
TR2 32x2x92	3.900	2367	1420	$\Phi =$	47,3495	x Δt	1,0000
TR2 32x2x92	4.000	2428	1456	$\Phi =$	48,5636	x Δt	1,0000
TR2 32x2x92	4.100	2488	1493	$\Phi =$	49,7777	x Δt	1,0000
TR2 32x2x92	4.200	2549	1529	$\Phi =$	50,9918	x Δt	1,0000
TR2 32x2x92	4.300	2610	1566	$\Phi =$	52,2059	x Δt	1,0000
TR2 32x2x92	4.400	2670	1602	$\Phi =$	53,4200	x Δt	1,0000
TR2 32x2x92	4.500	2731	1639	$\Phi =$	54,6341	x Δt	1,0000
TR2 32x2x92	4.600	2792	1675	$\Phi =$	55,8481	x Δt	1,0000
TR2 32x2x92	4.700	2853	1711	$\Phi =$	57,0622	x Δt	1,0000
TR2 32x2x92	4.800	2913	1748	$\Phi =$	58,2763	x Δt	1,0000
TR2 32x2x92	4.900	2974	1784	$\Phi =$	59,4904	x Δt	1,0000
TR2 32x2x92	5.000	3035	1821	$\Phi =$	60,7045	x Δt	1,0000
TR2 32x2x92	5.100	3095	1857	$\Phi =$	61,9186	x Δt	1,0000
TR2 32x2x92	5.200	3156	1893	$\Phi =$	63,1327	x Δt	1,0000
TR2 32x2x92	5.300	3217	1930	$\Phi =$	64,3468	x Δt	1,0000
TR2 32x2x92	5.400	3278	1966	$\Phi =$	65,5609	x Δt	1,0000
TR2 32x2x92	5.500	3338	2003	$\Phi =$	66,7750	x Δt	1,0000
TR2 32x2x92	5.600	3399	2039	$\Phi =$	67,9890	x Δt	1,0000
TR2 32x2x92	5.700	3460	2076	$\Phi =$	69,2031	x Δt	1,0000
TR2 32x2x92	5.800	3520	2112	$\Phi =$	70,4172	x Δt	1,0000
TR2 32x2x92	5.900	3581	2148	$\Phi =$	71,6313	x Δt	1,0000
TR2 32x2x92	6.000	3642	2185	$\Phi =$	72,8454	x Δt	1,0000

Typ TR2-W/K/S 57x2,5x137 xxxx mm

TR2 = zweireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 57 mm x Wanddicke 2,5 mm, Aussen-∅ 137 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TR2 57x2,5x137	500	339	203	Φ =	6,7812	x Δt	1,0000
TR2 57x2,5x137	600	406	244	Φ =	8,1374	x Δt	1,0000
TR2 57x2,5x137	700	474	284	Φ =	9,4936	x Δt	1,0000
TR2 57x2,5x137	800	542	325	Φ =	10,8498	x Δt	1,0000
TR2 57x2,5x137	900	610	366	Φ =	12,2061	x Δt	1,0000
TR2 57x2,5x137	1.000	678	406	Φ =	13,5623	x Δt	1,0000
TR2 57x2,5x137	1.100	745	447	Φ =	14,9185	x Δt	1,0000
TR2 57x2,5x137	1.200	813	488	Φ =	16,2748	x Δt	1,0000
TR2 57x2,5x137	1.300	881	528	Φ =	17,6310	x Δt	1,0000
TR2 57x2,5x137	1.400	949	569	Φ =	18,9872	x Δt	1,0000
TR2 57x2,5x137	1.500	1017	610	Φ =	20,3435	x Δt	1,0000
TR2 57x2,5x137	1.600	1084	650	Φ =	21,6997	x Δt	1,0000
TR2 57x2,5x137	1.700	1152	691	Φ =	23,0559	x Δt	1,0000
TR2 57x2,5x137	1.800	1220	732	Φ =	24,4121	x Δt	1,0000
TR2 57x2,5x137	1.900	1288	773	Φ =	25,7684	x Δt	1,0000
TR2 57x2,5x137	2.000	1356	813	Φ =	27,1246	x Δt	1,0000
TR2 57x2,5x137	2.100	1424	854	Φ =	28,4808	x Δt	1,0000
TR2 57x2,5x137	2.200	1491	895	Φ =	29,8371	x Δt	1,0000
TR2 57x2,5x137	2.300	1559	935	Φ =	31,1933	x Δt	1,0000
TR2 57x2,5x137	2.400	1627	976	Φ =	32,5495	x Δt	1,0000
TR2 57x2,5x137	2.500	1695	1017	Φ =	33,9058	x Δt	1,0000
TR2 57x2,5x137	2.600	1763	1057	Φ =	35,2620	x Δt	1,0000
TR2 57x2,5x137	2.700	1830	1098	Φ =	36,6182	x Δt	1,0000
TR2 57x2,5x137	2.800	1898	1139	Φ =	37,9744	x Δt	1,0000
TR2 57x2,5x137	2.900	1966	1179	Φ =	39,3307	x Δt	1,0000
TR2 57x2,5x137	3.000	2034	1220	Φ =	40,6869	x Δt	1,0000
TR2 57x2,5x137	3.100	2102	1261	Φ =	42,0431	x Δt	1,0000
TR2 57x2,5x137	3.200	2169	1301	Φ =	43,3994	x Δt	1,0000
TR2 57x2,5x137	3.300	2237	1342	Φ =	44,7556	x Δt	1,0000
TR2 57x2,5x137	3.400	2305	1383	Φ =	46,1118	x Δt	1,0000
TR2 57x2,5x137	3.500	2373	1424	Φ =	47,4681	x Δt	1,0000
TR2 57x2,5x137	3.600	2441	1464	Φ =	48,8243	x Δt	1,0000
TR2 57x2,5x137	3.700	2509	1505	Φ =	50,1805	x Δt	1,0000
TR2 57x2,5x137	3.800	2576	1546	Φ =	51,5367	x Δt	1,0000
TR2 57x2,5x137	3.900	2644	1586	Φ =	52,8930	x Δt	1,0000
TR2 57x2,5x137	4.000	2712	1627	Φ =	54,2492	x Δt	1,0000
TR2 57x2,5x137	4.100	2780	1668	Φ =	55,6054	x Δt	1,0000
TR2 57x2,5x137	4.200	2848	1708	Φ =	56,9617	x Δt	1,0000
TR2 57x2,5x137	4.300	2915	1749	Φ =	58,3179	x Δt	1,0000
TR2 57x2,5x137	4.400	2983	1790	Φ =	59,6741	x Δt	1,0000
TR2 57x2,5x137	4.500	3051	1830	Φ =	61,0304	x Δt	1,0000

TR2 57x2,5x137	4.600	3119	1871	Φ =	62,3866	x Δt	1,0000
TR2 57x2,5x137	4.700	3187	1912	Φ =	63,7428	x Δt	1,0000
TR2 57x2,5x137	4.800	3254	1952	Φ =	65,0990	x Δt	1,0000
TR2 57x2,5x137	4.900	3322	1993	Φ =	66,4553	x Δt	1,0000
TR2 57x2,5x137	5.000	3390	2034	Φ =	67,8115	x Δt	1,0000
TR2 57x2,5x137	5.100	3458	2075	Φ =	69,1677	x Δt	1,0000
TR2 57x2,5x137	5.200	3526	2115	Φ =	70,5240	x Δt	1,0000
TR2 57x2,5x137	5.300	3594	2156	Φ =	71,8802	x Δt	1,0000
TR2 57x2,5x137	5.400	3661	2197	Φ =	73,2364	x Δt	1,0000
TR2 57x2,5x137	5.500	3729	2237	Φ =	74,5927	x Δt	1,0000
TR2 57x2,5x137	5.600	3797	2278	Φ =	75,9489	x Δt	1,0000
TR2 57x2,5x137	5.700	3865	2319	Φ =	77,3051	x Δt	1,0000
TR2 57x2,5x137	5.800	3933	2359	Φ =	78,6613	x Δt	1,0000
TR2 57x2,5x137	5.900	4000	2400	Φ =	80,0176	x Δt	1,0000
TR2 57x2,5x137	6.000	4068	2441	Φ =	81,3738	x Δt	1,0000

Typ TR2-W/K/S 76x2,5x156 xxxx mm

TR2 = zweireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 76 mm x Wanddicke 2,5 mm, Aussen-∅ 156 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TR2 76x2,5x156	500	361	217	Φ =	7,2339	x Δt	1,0000
TR2 76x2,5x156	600	434	260	Φ =	8,6807	x Δt	1,0000
TR2 76x2,5x156	700	506	303	Φ =	10,1275	x Δt	1,0000
TR2 76x2,5x156	800	578	347	Φ =	11,5742	x Δt	1,0000
TR2 76x2,5x156	900	651	390	Φ =	13,0210	x Δt	1,0000
TR2 76x2,5x156	1.000	723	434	Φ =	14,4678	x Δt	1,0000
TR2 76x2,5x156	1.100	795	477	Φ =	15,9146	x Δt	1,0000
TR2 76x2,5x156	1.200	868	520	Φ =	17,3614	x Δt	1,0000
TR2 76x2,5x156	1.300	940	564	Φ =	18,8081	x Δt	1,0000
TR2 76x2,5x156	1.400	1012	607	Φ =	20,2549	x Δt	1,0000
TR2 76x2,5x156	1.500	1085	651	Φ =	21,7017	x Δt	1,0000
TR2 76x2,5x156	1.600	1157	694	Φ =	23,1485	x Δt	1,0000
TR2 76x2,5x156	1.700	1229	737	Φ =	24,5953	x Δt	1,0000
TR2 76x2,5x156	1.800	1302	781	Φ =	26,0420	x Δt	1,0000
TR2 76x2,5x156	1.900	1374	824	Φ =	27,4888	x Δt	1,0000
TR2 76x2,5x156	2.000	1446	868	Φ =	28,9356	x Δt	1,0000
TR2 76x2,5x156	2.100	1519	911	Φ =	30,3824	x Δt	1,0000
TR2 76x2,5x156	2.200	1591	954	Φ =	31,8292	x Δt	1,0000
TR2 76x2,5x156	2.300	1663	998	Φ =	33,2759	x Δt	1,0000
TR2 76x2,5x156	2.400	1736	1041	Φ =	34,7227	x Δt	1,0000
TR2 76x2,5x156	2.500	1808	1085	Φ =	36,1695	x Δt	1,0000
TR2 76x2,5x156	2.600	1880	1128	Φ =	37,6163	x Δt	1,0000
TR2 76x2,5x156	2.700	1953	1171	Φ =	39,0631	x Δt	1,0000
TR2 76x2,5x156	2.800	2025	1215	Φ =	40,5098	x Δt	1,0000
TR2 76x2,5x156	2.900	2097	1258	Φ =	41,9566	x Δt	1,0000

TR2 76x2,5x156	3.000	2170	1302	Φ =	43,4034	x Δt	1,0000
TR2 76x2,5x156	3.100	2242	1345	Φ =	44,8502	x Δt	1,0000
TR2 76x2,5x156	3.200	2314	1388	Φ =	46,2970	x Δt	1,0000
TR2 76x2,5x156	3.300	2387	1432	Φ =	47,7437	x Δt	1,0000
TR2 76x2,5x156	3.400	2459	1475	Φ =	49,1905	x Δt	1,0000
TR2 76x2,5x156	3.500	2531	1519	Φ =	50,6373	x Δt	1,0000
TR2 76x2,5x156	3.600	2604	1562	Φ =	52,0841	x Δt	1,0000
TR2 76x2,5x156	3.700	2676	1605	Φ =	53,5309	x Δt	1,0000
TR2 76x2,5x156	3.800	2748	1649	Φ =	54,9776	x Δt	1,0000
TR2 76x2,5x156	3.900	2821	1692	Φ =	56,4244	x Δt	1,0000
TR2 76x2,5x156	4.000	2893	1736	Φ =	57,8712	x Δt	1,0000
TR2 76x2,5x156	4.100	2965	1779	Φ =	59,3180	x Δt	1,0000
TR2 76x2,5x156	4.200	3038	1822	Φ =	60,7648	x Δt	1,0000
TR2 76x2,5x156	4.300	3110	1866	Φ =	62,2115	x Δt	1,0000
TR2 76x2,5x156	4.400	3182	1909	Φ =	63,6583	x Δt	1,0000
TR2 76x2,5x156	4.500	3255	1953	Φ =	65,1051	x Δt	1,0000
TR2 76x2,5x156	4.600	3327	1996	Φ =	66,5519	x Δt	1,0000
TR2 76x2,5x156	4.700	3399	2039	Φ =	67,9987	x Δt	1,0000
TR2 76x2,5x156	4.800	3472	2083	Φ =	69,4454	x Δt	1,0000
TR2 76x2,5x156	4.900	3544	2126	Φ =	70,8922	x Δt	1,0000
TR2 76x2,5x156	5.000	3616	2170	Φ =	72,3390	x Δt	1,0000
TR2 76x2,5x156	5.100	3689	2213	Φ =	73,7858	x Δt	1,0000
TR2 76x2,5x156	5.200	3761	2256	Φ =	75,2326	x Δt	1,0000
TR2 76x2,5x156	5.300	3833	2300	Φ =	76,6793	x Δt	1,0000
TR2 76x2,5x156	5.400	3906	2343	Φ =	78,1261	x Δt	1,0000
TR2 76x2,5x156	5.500	3978	2387	Φ =	79,5729	x Δt	1,0000
TR2 76x2,5x156	5.600	4050	2430	Φ =	81,0197	x Δt	1,0000
TR2 76x2,5x156	5.700	4123	2473	Φ =	82,4665	x Δt	1,0000
TR2 76x2,5x156	5.800	4195	2517	Φ =	83,9132	x Δt	1,0000
TR2 76x2,5x156	5.900	4268	2560	Φ =	85,3600	x Δt	1,0000
TR2 76x2,5x156	6.000	4340	2604	Φ =	86,8068	x Δt	1,0000

Typ TR3-W/K/S 32x2x92 xxxx mm

TR3 = dreireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 32 mm x Wanddicke 2 mm, Aussen-∅ 92 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TR3 32x2x92	500	554	288	Φ =	3,7273	x Δt	1,2787
TR3 32x2x92	600	665	346	Φ =	4,4727	x Δt	1,2787
TR3 32x2x92	700	776	403	Φ =	5,2182	x Δt	1,2787
TR3 32x2x92	800	887	461	Φ =	5,9636	x Δt	1,2787
TR3 32x2x92	900	998	519	Φ =	6,7091	x Δt	1,2787
TR3 32x2x92	1.000	1108	577	Φ =	7,4545	x Δt	1,2787
TR3 32x2x92	1.100	1219	634	Φ =	8,2000	x Δt	1,2787
TR3 32x2x92	1.200	1330	692	Φ =	8,9454	x Δt	1,2787
TR3 32x2x92	1.300	1441	750	Φ =	9,6909	x Δt	1,2787

TR3 32x2x92	1.400	1552	807	$\Phi =$	10,4363	$\times \Delta t$	^{1,2787}
TR3 32x2x92	1.500	1663	865	$\Phi =$	11,1818	$\times \Delta t$	^{1,2787}
TR3 32x2x92	1.600	1774	923	$\Phi =$	11,9272	$\times \Delta t$	^{1,2787}
TR3 32x2x92	1.700	1885	980	$\Phi =$	12,6727	$\times \Delta t$	^{1,2787}
TR3 32x2x92	1.800	1996	1038	$\Phi =$	13,4181	$\times \Delta t$	^{1,2787}
TR3 32x2x92	1.900	2106	1096	$\Phi =$	14,1636	$\times \Delta t$	^{1,2787}
TR3 32x2x92	2.000	2217	1154	$\Phi =$	14,9090	$\times \Delta t$	^{1,2787}
TR3 32x2x92	2.100	2328	1211	$\Phi =$	15,6545	$\times \Delta t$	^{1,2787}
TR3 32x2x92	2.200	2439	1269	$\Phi =$	16,3999	$\times \Delta t$	^{1,2787}
TR3 32x2x92	2.300	2550	1327	$\Phi =$	17,1454	$\times \Delta t$	^{1,2787}
TR3 32x2x92	2.400	2661	1384	$\Phi =$	17,8908	$\times \Delta t$	^{1,2787}
TR3 32x2x92	2.500	2772	1442	$\Phi =$	18,6363	$\times \Delta t$	^{1,2787}
TR3 32x2x92	2.600	2883	1500	$\Phi =$	19,3817	$\times \Delta t$	^{1,2787}
TR3 32x2x92	2.700	2994	1558	$\Phi =$	20,1272	$\times \Delta t$	^{1,2787}
TR3 32x2x92	2.800	3104	1615	$\Phi =$	20,8726	$\times \Delta t$	^{1,2787}
TR3 32x2x92	2.900	3215	1673	$\Phi =$	21,6181	$\times \Delta t$	^{1,2787}
TR3 32x2x92	3.000	3326	1731	$\Phi =$	22,3635	$\times \Delta t$	^{1,2787}
TR3 32x2x92	3.100	3437	1788	$\Phi =$	23,1090	$\times \Delta t$	^{1,2787}
TR3 32x2x92	3.200	3548	1846	$\Phi =$	23,8544	$\times \Delta t$	^{1,2787}
TR3 32x2x92	3.300	3659	1904	$\Phi =$	24,5999	$\times \Delta t$	^{1,2787}
TR3 32x2x92	3.400	3770	1961	$\Phi =$	25,3453	$\times \Delta t$	^{1,2787}
TR3 32x2x92	3.500	3881	2019	$\Phi =$	26,0908	$\times \Delta t$	^{1,2787}
TR3 32x2x92	3.600	3992	2077	$\Phi =$	26,8362	$\times \Delta t$	^{1,2787}
TR3 32x2x92	3.700	4102	2135	$\Phi =$	27,5817	$\times \Delta t$	^{1,2787}
TR3 32x2x92	3.800	4213	2192	$\Phi =$	28,3271	$\times \Delta t$	^{1,2787}
TR3 32x2x92	3.900	4324	2250	$\Phi =$	29,0726	$\times \Delta t$	^{1,2787}
TR3 32x2x92	4.000	4435	2308	$\Phi =$	29,8180	$\times \Delta t$	^{1,2787}
TR3 32x2x92	4.100	4546	2365	$\Phi =$	30,5635	$\times \Delta t$	^{1,2787}
TR3 32x2x92	4.200	4657	2423	$\Phi =$	31,3089	$\times \Delta t$	^{1,2787}
TR3 32x2x92	4.300	4768	2481	$\Phi =$	32,0544	$\times \Delta t$	^{1,2787}
TR3 32x2x92	4.400	4879	2539	$\Phi =$	32,7998	$\times \Delta t$	^{1,2787}
TR3 32x2x92	4.500	4990	2596	$\Phi =$	33,5453	$\times \Delta t$	^{1,2787}
TR3 32x2x92	4.600	5100	2654	$\Phi =$	34,2907	$\times \Delta t$	^{1,2787}
TR3 32x2x92	4.700	5211	2712	$\Phi =$	35,0362	$\times \Delta t$	^{1,2787}
TR3 32x2x92	4.800	5322	2769	$\Phi =$	35,7816	$\times \Delta t$	^{1,2787}
TR3 32x2x92	4.900	5433	2827	$\Phi =$	36,5271	$\times \Delta t$	^{1,2787}
TR3 32x2x92	5.000	5544	2885	$\Phi =$	37,2725	$\times \Delta t$	^{1,2787}
TR3 32x2x92	5.100	5655	2942	$\Phi =$	38,0180	$\times \Delta t$	^{1,2787}
TR3 32x2x92	5.200	5766	3000	$\Phi =$	38,7634	$\times \Delta t$	^{1,2787}
TR3 32x2x92	5.300	5877	3058	$\Phi =$	39,5089	$\times \Delta t$	^{1,2787}
TR3 32x2x92	5.400	5988	3116	$\Phi =$	40,2543	$\times \Delta t$	^{1,2787}
TR3 32x2x92	5.500	6098	3173	$\Phi =$	40,9998	$\times \Delta t$	^{1,2787}
TR3 32x2x92	5.600	6209	3231	$\Phi =$	41,7452	$\times \Delta t$	^{1,2787}
TR3 32x2x92	5.700	6320	3289	$\Phi =$	42,4907	$\times \Delta t$	^{1,2787}
TR3 32x2x92	5.800	6431	3346	$\Phi =$	43,2361	$\times \Delta t$	^{1,2787}
TR3 32x2x92	5.900	6542	3404	$\Phi =$	43,9816	$\times \Delta t$	^{1,2787}
TR3 32x2x92	6.000	6653	3462	$\Phi =$	44,7270	$\times \Delta t$	^{1,2787}

Typ TR3-W/K/S 57x2,5x137 xxxx mm

TR3 = dreireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 57 mm x Wanddicke 2,5 mm, Aussen-∅ 137 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TR3 57x2,5x137	500	459	239	Φ =	3,0901	x Δt	1,2787
TR3 57x2,5x137	600	551	287	Φ =	3,7081	x Δt	1,2787
TR3 57x2,5x137	700	643	334	Φ =	4,3261	x Δt	1,2787
TR3 57x2,5x137	800	735	382	Φ =	4,9441	x Δt	1,2787
TR3 57x2,5x137	900	827	430	Φ =	5,5621	x Δt	1,2787
TR3 57x2,5x137	1.000	919	478	Φ =	6,1801	x Δt	1,2787
TR3 57x2,5x137	1.100	1011	526	Φ =	6,7981	x Δt	1,2787
TR3 57x2,5x137	1.200	1103	574	Φ =	7,4161	x Δt	1,2787
TR3 57x2,5x137	1.300	1195	621	Φ =	8,0341	x Δt	1,2787
TR3 57x2,5x137	1.400	1287	669	Φ =	8,6521	x Δt	1,2787
TR3 57x2,5x137	1.500	1378	717	Φ =	9,2702	x Δt	1,2787
TR3 57x2,5x137	1.600	1470	765	Φ =	9,8882	x Δt	1,2787
TR3 57x2,5x137	1.700	1562	813	Φ =	10,5062	x Δt	1,2787
TR3 57x2,5x137	1.800	1654	861	Φ =	11,1242	x Δt	1,2787
TR3 57x2,5x137	1.900	1746	908	Φ =	11,7422	x Δt	1,2787
TR3 57x2,5x137	2.000	1838	956	Φ =	12,3602	x Δt	1,2787
TR3 57x2,5x137	2.100	1930	1004	Φ =	12,9782	x Δt	1,2787
TR3 57x2,5x137	2.200	2022	1052	Φ =	13,5962	x Δt	1,2787
TR3 57x2,5x137	2.300	2114	1100	Φ =	14,2142	x Δt	1,2787
TR3 57x2,5x137	2.400	2206	1148	Φ =	14,8322	x Δt	1,2787
TR3 57x2,5x137	2.500	2298	1195	Φ =	15,4503	x Δt	1,2787
TR3 57x2,5x137	2.600	2390	1243	Φ =	16,0683	x Δt	1,2787
TR3 57x2,5x137	2.700	2482	1291	Φ =	16,6863	x Δt	1,2787
TR3 57x2,5x137	2.800	2574	1339	Φ =	17,3043	x Δt	1,2787
TR3 57x2,5x137	2.900	2666	1387	Φ =	17,9223	x Δt	1,2787
TR3 57x2,5x137	3.000	2757	1435	Φ =	18,5403	x Δt	1,2787
TR3 57x2,5x137	3.100	2849	1483	Φ =	19,1583	x Δt	1,2787
TR3 57x2,5x137	3.200	2941	1530	Φ =	19,7763	x Δt	1,2787
TR3 57x2,5x137	3.300	3033	1578	Φ =	20,3943	x Δt	1,2787
TR3 57x2,5x137	3.400	3125	1626	Φ =	21,0123	x Δt	1,2787
TR3 57x2,5x137	3.500	3217	1674	Φ =	21,6304	x Δt	1,2787
TR3 57x2,5x137	3.600	3309	1722	Φ =	22,2484	x Δt	1,2787
TR3 57x2,5x137	3.700	3401	1770	Φ =	22,8664	x Δt	1,2787
TR3 57x2,5x137	3.800	3493	1817	Φ =	23,4844	x Δt	1,2787
TR3 57x2,5x137	3.900	3585	1865	Φ =	24,1024	x Δt	1,2787
TR3 57x2,5x137	4.000	3677	1913	Φ =	24,7204	x Δt	1,2787
TR3 57x2,5x137	4.100	3769	1961	Φ =	25,3384	x Δt	1,2787
TR3 57x2,5x137	4.200	3861	2009	Φ =	25,9564	x Δt	1,2787
TR3 57x2,5x137	4.300	3953	2057	Φ =	26,5744	x Δt	1,2787
TR3 57x2,5x137	4.400	4045	2104	Φ =	27,1924	x Δt	1,2787
TR3 57x2,5x137	4.500	4136	2152	Φ =	27,8105	x Δt	1,2787

TR3 57x2,5x137	4.600	4228	2200	Φ =	28,4285	x Δt	1,2787
TR3 57x2,5x137	4.700	4320	2248	Φ =	29,0465	x Δt	1,2787
TR3 57x2,5x137	4.800	4412	2296	Φ =	29,6645	x Δt	1,2787
TR3 57x2,5x137	4.900	4504	2344	Φ =	30,2825	x Δt	1,2787
TR3 57x2,5x137	5.000	4596	2391	Φ =	30,9005	x Δt	1,2787
TR3 57x2,5x137	5.100	4688	2439	Φ =	31,5185	x Δt	1,2787
TR3 57x2,5x137	5.200	4780	2487	Φ =	32,1365	x Δt	1,2787
TR3 57x2,5x137	5.300	4872	2535	Φ =	32,7545	x Δt	1,2787
TR3 57x2,5x137	5.400	4964	2583	Φ =	33,3725	x Δt	1,2787
TR3 57x2,5x137	5.500	5056	2631	Φ =	33,9906	x Δt	1,2787
TR3 57x2,5x137	5.600	5148	2679	Φ =	34,6086	x Δt	1,2787
TR3 57x2,5x137	5.700	5240	2726	Φ =	35,2266	x Δt	1,2787
TR3 57x2,5x137	5.800	5332	2774	Φ =	35,8446	x Δt	1,2787
TR3 57x2,5x137	5.900	5424	2822	Φ =	36,4626	x Δt	1,2787
TR3 57x2,5x137	6.000	5515	2870	Φ =	37,0806	x Δt	1,2787

Typ TR3-W/K/S 76x2,5x156 xxxx mm

TR3 = dreireihig
Wand/Konsole/selbststehend
Kernrohr-∅ 76 mm x Wanddicke 2,5 mm, Aussen-∅ 156 mm x Baulänge in mm

		Nennwärmeleistung [W]		Wärmeleistung bei verschiedenen Betriebsbedingungen (Kennlinie)			
Typ	**BL [mm]**	**Φ50**	**Φ30**				
TR3 76x2,5x156	500	460	239	Φ =	3,0955	x Δt	1,2787
TR3 76x2,5x156	600	552	287	Φ =	3,7145	x Δt	1,2787
TR3 76x2,5x156	700	644	335	Φ =	4,3336	x Δt	1,2787
TR3 76x2,5x156	800	736	383	Φ =	4,9527	x Δt	1,2787
TR3 76x2,5x156	900	828	431	Φ =	5,5718	x Δt	1,2787
TR3 76x2,5x156	1.000	920	479	Φ =	6,1909	x Δt	1,2787
TR3 76x2,5x156	1.100	1013	527	Φ =	6,8100	x Δt	1,2787
TR3 76x2,5x156	1.200	1105	575	Φ =	7,4291	x Δt	1,2787
TR3 76x2,5x156	1.300	1197	623	Φ =	8,0482	x Δt	1,2787
TR3 76x2,5x156	1.400	1289	670	Φ =	8,6673	x Δt	1,2787
TR3 76x2,5x156	1.500	1381	718	Φ =	9,2864	x Δt	1,2787
TR3 76x2,5x156	1.600	1473	766	Φ =	9,9054	x Δt	1,2787
TR3 76x2,5x156	1.700	1565	814	Φ =	10,5245	x Δt	1,2787
TR3 76x2,5x156	1.800	1657	862	Φ =	11,1436	x Δt	1,2787
TR3 76x2,5x156	1.900	1749	910	Φ =	11,7627	x Δt	1,2787
TR3 76x2,5x156	2.000	1841	958	Φ =	12,3818	x Δt	1,2787
TR3 76x2,5x156	2.100	1933	1006	Φ =	13,0009	x Δt	1,2787
TR3 76x2,5x156	2.200	2026	1054	Φ =	13,6200	x Δt	1,2787
TR3 76x2,5x156	2.300	2118	1102	Φ =	14,2391	x Δt	1,2787
TR3 76x2,5x156	2.400	2210	1150	Φ =	14,8582	x Δt	1,2787
TR3 76x2,5x156	2.500	2302	1198	Φ =	15,4773	x Δt	1,2787
TR3 76x2,5x156	2.600	2394	1246	Φ =	16,0963	x Δt	1,2787
TR3 76x2,5x156	2.700	2486	1293	Φ =	16,7154	x Δt	1,2787
TR3 76x2,5x156	2.800	2578	1341	Φ =	17,3345	x Δt	1,2787
TR3 76x2,5x156	2.900	2670	1389	Φ =	17,9536	x Δt	1,2787

TR3 76x2,5x156	3.000	2762	1437	$\Phi =$	18,5727	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	3.100	2854	1485	$\Phi =$	19,1918	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	3.200	2946	1533	$\Phi =$	19,8109	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	3.300	3039	1581	$\Phi =$	20,4300	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	3.400	3131	1629	$\Phi =$	21,0491	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	3.500	3223	1677	$\Phi =$	21,6682	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	3.600	3315	1725	$\Phi =$	22,2872	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	3.700	3407	1773	$\Phi =$	22,9063	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	3.800	3499	1821	$\Phi =$	23,5254	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	3.900	3591	1869	$\Phi =$	24,1445	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	4.000	3683	1916	$\Phi =$	24,7636	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	4.100	3775	1964	$\Phi =$	25,3827	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	4.200	3867	2012	$\Phi =$	26,0018	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	4.300	3960	2060	$\Phi =$	26,6209	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	4.400	4052	2108	$\Phi =$	27,2400	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	4.500	4144	2156	$\Phi =$	27,8591	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	4.600	4236	2204	$\Phi =$	28,4781	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	4.700	4328	2252	$\Phi =$	29,0972	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	4.800	4420	2300	$\Phi =$	29,7163	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	4.900	4512	2348	$\Phi =$	30,3354	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	5.000	4604	2396	$\Phi =$	30,9545	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	5.100	4696	2444	$\Phi =$	31,5736	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	5.200	4788	2492	$\Phi =$	32,1927	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	5.300	4880	2539	$\Phi =$	32,8118	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	5.400	4973	2587	$\Phi =$	33,4309	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	5.500	5065	2635	$\Phi =$	34,0500	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	5.600	5157	2683	$\Phi =$	34,6690	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	5.700	5249	2731	$\Phi =$	35,2881	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	5.800	5341	2779	$\Phi =$	35,9072	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	5.900	5433	2827	$\Phi =$	36,5263	$x \Delta t$	^{1,2787}
TR3 76x2,5x156	6.000	5525	2875	$\Phi =$	37,1454	$x \Delta t$	^{1,2787}

Die Leistung des vorstehenden Produkts entspricht der erklärten Leistung/den erklärten Leistungen. Für die Erstellung der Leistungserklärung im Einklang mit der Verordnung (EU) Nr. 305/2011 ist allein der obengenannte Hersteller verantwortlich.

Unterzeichnet für den Hersteller und im Namen des Herstellers von:

Klaus Quast

Willstätt, den 18.12.2018