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Company confidential

PHE APPROVED BY DNV/Inspecta ACC TO TKN87 / PED 97/23/EC.
 PHE APPROVED BY Inspecta ACC TO EN13445 / PED 97/23/EC (approval number in red)

PHE	Drawing no		Approval no	Date	Pressure (Bar)	Temp. (°C)	Max allowable Full pressure cycles #Note2	
							Cover	Bolt
PHE-7PI	3-4122	4-2878	02-813795/30	02-03-13	16	-10/170	NA	NA
PHE-7SI	3-4315	4-2927	02-172218	02-07-01	25	-10/170	NA	NA
PHE/GC-8TI	3-5385	4-4029	05-660603/10	05-08-08	6	-10/170	NA	NA
PHE/GC-8PI	3-5619	4-4061	05-660603/20	05-08-08	16	-10/170	NA	NA
PHE/GC-8SI	3-5620	4-4062	05-660603/30	05-08-08	25	-10/170	NA	NA
PHE/GC-9P	3-6445	4-4293	07-781318-01	07-09-04	16	-10/200	No limit	500 000
PHE/GC-9PI	3-6446	4-4294	07-781318-01	07-09-04	16	-10/200	No limit	500 000
PHE-12NI	3-4240	4-2907	02-171806/10	02-04-30	10	-10/170	NA	NA
PHE-12N	3-4239	4-2906	02-171806/20	02-04-30	10	-10/170	NA	NA
PHE-12PI	3-4088	4-2814	02-813654/10	02-02-11	16	-10/170	NA	NA
PHE-12P	3-4087	4-2813	02-813654/10	02-02-11	16	-10/170	NA	NA
PHE-12SI	3-4335	4-2929	02-172002/10	02-05-31	25	-10/170	NA	NA
PHE-12S	3-4334	4-2928	02-172002/10	02-05-31	25	-10/170	NA	NA
PHE/GL-13NI	3-4242	4-2909	02-171822/10	02-04-30	10	-10/170	NA	NA
PHE/GL-13N	3-4241	4-2908	02-171822/20	02-04-30	10	-10/170	NA	NA
PHE/GL-13PI	3-4090	4-2816	02-813654/20	02-02-11	16	-10/170	NA	NA
PHE/GL-13P	3-4089	4-2815	02-813654/20	02-02-11	16	-10/170	NA	NA
PHE/GL-13P CM	3-4701	4-3062	03-312152/10	03-03-14	16	-10/170	NA	NA
PHE/GL-13SI	3-4337	4-2931	02-172002/20	02-05-31	25	-10/170	NA	NA
PHE/GL-13S	3-4336	4-2930	02-172002/20	02-05-31	25	-10/170	NA	NA
PHE/GC-16NI	3-4233	4-2911	02-171830/10	02-04-30	10	-10/170	NA	NA
PHE/GC-16N	3-4231	4-2910	02-171830/20	02-04-30	10	-10/170	NA	NA
PHE/GC-16PI	3-4086	4-2812	02-813654/30	02-02-11	16	-10/170	NA	NA
PHE/GC-16P	3-4082	4-2811	02-813654/30	02-02-11	16	-10/170	NA	NA
PHE/GC-16P CM	3-4714	4-3063	03-312152/20	03-03-14	16	-10/170	NA	NA
PHE/GC-16SI	3-4339	4-2933	02-172002/30	02-05-31	25	-10/170	NA	NA
PHE/GC-16S	3-4338	4-2932	02-172002/30	02-05-31	25	-10/170	NA	NA
PHE-18PI	3-4343	4-2934	02-813654/40	02-09-30	16	-10/170	NA	NA
PHE-18P	3-4344	4-2935	02-813654/40	02-09-30	16	-10/170	NA	NA
PHE-26N	3-4221	4-2900	02-144555/00	02-05-06	8	-10/170	NA	NA
PHE/GC-26N	3-4230	4-2905	02-144555/01	02-05-06	8	-10/170	NA	NA



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PHE	Drawing no		Approval no	Date	Pressure (Bar)	Temp. (°C)	Max allowable Full pressure cycles #Note2	
							Cover	Bolt
PHE-26P	3-3971	4-2782	01-813381/20	01-10-25	16	-10/170	NA	NA
PHE/GC-26P	3-3972	4-2783	01-813381/20	01-10-25	16	-10/170	NA	NA
PHE-26P CM	3-4266	4-2915	02-145156/00	02-05-06	16	-10/170	NA	NA
PHE/GC-26P CM	3-4267	4-2916	02-145156/01	02-05-06	16	-10/170	NA	NA
PHE-26S	3-4012	4-2788	01-813381/10	01-10-22	25	-10/170	NA	NA
PHE/GC-26S	3-4436	4-2961	02-172325	02-07-30	25	-10/170	NA	NA
PHE-42N	3-4222	4-2901	02-144555/02	02-05-06	8	-10/170	NA	NA
PHE-42P	3-4060	4-2800	07-781318-02	07-09-10	16	-10/200	600 000	56 000
PHE-42P CM	3-4458	4-2966	02-236153/00	02-09-02	16	-10/170	NA	NA
PHE-42S	3-858	4-338	02-146089/00	02-05-21	25	-10/170	NA	NA
PHE/GC-44P	3-6426	4-4379	08-710804-00	08-08-25	16	-10/200	600 000	56 000
PHE-51N	4-2628	3-3620	02-144811/00	02-05-07	10	-10/170	NA	NA
PHE/GC-51N	3-4253	4-2914	02-144811/01	02-05-07	10	-10/170	NA	NA
PHE-51P	3-3973	4-2784	01-813381/30	01-10-25	16	-10/170	NA	NA
PHE/GC-51P	3-3974	4-2785	01-813381/30	01-10-25	16	-10/170	NA	NA
PHE-51S	3-859	4-339	02-146089/18	02-06-17	25	-10/170	NA	NA
PHE/GC-51S	3-4407	4-2945	02-146089/20	02-06-29	25	-10/170	NA	NA
PHE/GC-54N	3-4655	4-3040	03-247424/10	03-02-19	10	-10/170	NA	NA
PHE/GC-54P	3-4656	4-3041	03-247424/20	03-02-19	16	-10/170	NA	NA
PHE/GC-54S	3-4657	4-3042	03-247424/30	03-02-19	25	-10/170	NA	NA
PHE-64P	3-334	4-134	02-838727/00	02-02-14	16	-10/170	NA	NA
PHE-64S	3-900	4-440	02-838727/01	02-02-14	25	-10/170	NA	NA
PHE-91P	3-335	4-135	02-146089/01	02-05-23	16	-10/170	NA	NA
PHE-91S	3-901	4-441	02-146089/06	02-05-27	25	-10/170	NA	NA
PHE-118P	3-336	4-136	02-146089/04	02-05-24	16	-10/170	NA	NA
PHE-118S	3-2871	4-1085	02-146089/07	02-05-27	25	-10/170	NA	NA
PHE-60P	3-3963	4-2780	01-646393/10	02-10-01	16	-10/170	NA	NA
PHE/GC-60P	3-4113	4-2872	01-646393/10	02-10-01	16	-10/170	NA	NA
PHE-60S	3-4105	4-2870	01-838222	01-12-28	25	-10/170	NA	NA
PHE/GC-60S	3-4398	4-2944	02-146089/19	02-06-29	25	-10/170	NA	NA
PHE-100P	3-4065	4-2801	01-837273	01-12-03	16	-10/170	NA	NA
PHE-100S	3-4406	4-2946	02-146089/17	02-06-17	25	-10/170	NA	NA
PHE-140P	3-4066	4-2803	01-813480	02-02-27	16	-10/170	NA	NA
PHE-140S	3-4372	4-2940	02-146089/05	02-05-27	25	-10/170	NA	NA



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PHE	Drawing no		Approval no	Date	Pressure (Bar)	Temp. (°C)	Max allowable Full pressure cycles #Note2	
							Cover	Bolt
PHE-180P	3-4362	4-2938	02-146089/03	02-05-23	16	-10/170	NA	NA
PHE-180S	3-4363	4-2939	02-146089/02	02-05-23	25	-10/170	NA	NA
PHE-85N	3-346	4-146	02-146089/10	02-05-30	10	-10/170	NA	NA
PHE-85P	3-341	4-141	02-145149	02-05-23	16	-10/170	NA	NA
PHE-85S	3-4156	4-2886	02-839816	02-03-01	25	-10/170	NA	NA
PHE/GL-85N	3-4739	4-3077	03-426302/30	03-10-31	10	-10/170	NA	NA
PHE/GL-85P	3-4741	4-3079	03-426302/40	03-10-31	16	-10/170	NA	NA
PHE-145T	3-5515	4-4045	05-611515	06-01-03	5,5	-10/170	NA	NA
PHE-145N	3-347	4-147	02-146089/12	02-06-03	10	-10/170	NA	NA
PHE-145P	3-342	4-142	02-145784	02-05-23	16	-10/170	NA	NA
PHE-145S	3-4158	4-2888	02-839907	02-03-18	25	-10/170	NA	NA
PHE/GL-145T	3-5515	4-4045	05-611515	06-01-13	5,5	-10/170	NA	NA
PHE/GL-145N	3-4740	4-3078	03-426302/10	03-10-30	10	-10/170	NA	NA
PHE/GL-145P	3-4742	4-3080	03-426302/20	03-10-30	16	-10/170	NA	NA
PHE-205N	3-348	4-148	02-146089/11	02-05-30	10	-10/170	NA	NA
PHE/GL-205N	3-5707	4-4087	05-193282/10	05-12-15	10	-10/170	NA	NA
PHE-205P	3-3964	4-2781	01-646393/20	02-10-01	16	-10/170	NA	NA
PHE/GL-205P	3-5708	4-4088	05-193282/20	05-12-15	16	-10/170	NA	NA
PHE-205S	3-4131	4-2879	02-838644	02-02-14	25	-10/170	NA	NA
PHE-265N	3-349	4-149	02-146089/13	02-06-03	10	-10/170	NA	NA
PHE/GL-265N	3-5709	4-4089	05-193282/30	05-12-15	10	-10/170	NA	NA
PHE-265P	3-344	4-144	02-146089/09	02-05-30	16	-10/170	NA	NA
PHE/GL-265P	3-5710	4-4090	05-193282/40	05-12-15	16	-10/170	NA	NA
PHE-265S	3-4388	4-2943	02-146089/08	02-05-29	25	-10/170	NA	NA
PHE-325N	3-350	4-150	02-146089/14	02-06-03	10	-10/170	NA	NA
PHE/GL-325N	3-5711	4-4091	05-193282/50	05-12-19	10	-10/170	NA	NA
PHE-325P	3-2104	4-1204	02-146089/15	02-06-05	16	-10/170	NA	NA
PHE/GL-325P	3-5712	4-4092	05-193282/60	05-12-19	16	-10/170	NA	NA
PHE-325S	3-4405	4-2947	02-146089/16	02-06-05	25	-10/170	NA	NA
PHE/GL-385P	3-6419	4-4375	08-846251-00	08-07-14	16	-10/200	35300	26300
PHE/GC-12PI	3-4120	4-2877	02-813795/20	02-03-13	16	-10/170	NA	NA
PHE/GC-28P	3-7007	4-778	02-172846	02-10-07	7	-10/170	NA	NA
PHE/GC-30NI	3-4095	4-2845	02-813795/10	02-03-13	10	-10/170	NA	NA
PHE/GC-30N	3-4094	4-2835	02-813795/10	02-03-13	10	-10/170	NA	NA



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PHE	Drawing no		Approval no	Date	Pressure (Bar)	Temp. (°C)	Max allowable Full pressure cycles #Note2	
							Cover	Bolt
GF-57N	3-3054	4-2219	02-146089/21	02-06-30	10	-10/170	NA	NA
GF-97N	3-3055	4-2220	02-146089/22	02-06-30	10	-10/170	NA	NA
GF-187N	3-3056	4-2221	02-146089/23	02-06-30	10	-10/170	NA	NA
GF-145N	3-6156	4-4262	08-385185-00	08-01-29	10	-10/200	No limit	48 000
GF-205N	3-6254	4-4302	07-781722-00	07-10-12	10	-10/200	20 000	53 000
GW-80SR	3-1270	4-586	02-172176/20	02-06-19	25	-10/170	NA	NA
GW-80P	3-2952	4-2086	02-172176/10	02-06-19	16	-10/170	NA	NA
UM-20U	3-4762		03-313358	03-08-25	10	-10/250//300	NA	NA
UM-20M (Note 1)	3-4524		03-246970	03-06-16	40/38	-10/250//300	NA	NA
PHE/GL-230T	3-4750	4-3083	03-313190/70	03-06-24	6	-10/170	NA	NA
PHE/GL-230N	3-4751	4-3084	03-313190/80	03-06-24	10	-10/170	NA	NA
PHE/GL-230P	3-4752	4-3085	03-313190/90	03-06-24	16	-10/170	NA	NA
PHE/GL-330T	3-4753	4-3086	03-313190/40	03-06-23	6	-10/170	NA	NA
PHE/GL-330N	3-4754	4-3087	03-313190/50	03-06-23	10	-10/170	NA	NA
PHE/GL-330P	3-4755	4-3088	03-313190/60	03-06-23	16	-10/170	NA	NA
PHE/GL-430T	3-4756	4-3089	03-313190/10	03-06-19	6	-10/170	NA	NA
PHE/GL-430N	3-4757	4-3090	03-313190/20	03-06-23	10	-10/170	NA	NA
PHE/GL-430P	3-4758	4-3091	03-313190/30	03-06-23	16	-10/170	NA	NA
Special Flattened Tube Bank	1-444		03-426005	03-10-13	7	-29/300	NA	NA
Econocoil style: 50, 60, 70, 80, 90	D-201612 – D-201616 3-16484 – 3-16488		08-710671-00 Note 3.	08-08-05	-1 / 7 – 18 (See drawings.)	SS -140 – 185°C TI -60 – 165°C	NA	NA

All Plate Heat Exchangers are approved for the temperature range –50/200°C if the requirements in 4-2786 are fulfilled.

Note 1: Not approved for titanium.

Note 2: After reaching maximum allowable pressure cycles inspection of PHE needs to be done by Inspecta.

Note 3: When designing/customizing Econocoil contact Internal Sales UK to establish the need of CE-marking.