

## NPSH Test Certificate

**Customer:**

**Pump Type:** C-20 / EM-22

<b>Motor:</b>	Manufacture :	Haag	Type:	180M-2 (CSA)	No.:	1023081359
	P:	22 [KW]	U:	575 [V]	I:	27 [A]
	n <sub>range</sub> :	2940	f <sub>range</sub> :	37-53 [Hz]	f <sub>field weakening point</sub> :	50 [Hz]

<b>Gearbox:</b>	Manufacture :	-	Type:	-	Nr:	-
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**H2O-Test**

Q	P <sub>suct</sub>	P <sub>del</sub>	Δp	ΔH	p <sub>v</sub>	NPSH	dH / ΔH	T	n / f	γ
[l/min]	[bar]	[bar]	[bar]	[m]	[bar]	[m]	[%]	[°C]	(rpm / Hz)	[daN/l]
1380	0.561	4.189	4.642	47.44	0.029	5.437	0.4	23.33	2908/49.3	0.979
1380	0.517	4.134	4.630	47.32	0.029	4.991	0.6	23.38		0.979
1380	0.469	4.085	4.610	47.12	0.029	4.496	1.1	23.42		0.979
1380	0.430	4.015	4.598	47.00	0.029	4.100	1.1	23.45		0.979
1380	0.369	3.950	4.594	46.95	0.029	3.474	1.4	23.47		0.978
1380	0.336	3.885	4.562	46.63	0.029	3.142	2.1	23.51		0.978
1380	0.326	3.867	4.555	46.55	0.029	3.034	2.4	23.53		0.978
1380	0.222	3.804	4.595	46.97	0.029	1.969	3.0	23.56		0.978

<p>Impeller Ø at test: 210 mm</p> <p>Tip width: 11 mm</p> <p>With Inducer: yes</p> <p>With Blade- ring: no</p> <p>Diffusor type:</p> <p>Orifice Ø :</p>	<p><b>Remarks:</b></p> <p>p<sub>amb</sub> 0.973 bar</p>
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**Date :** 04.06.2014

**Signature:** DH