



## CUTES Europe Liquid ring vacuum pumps

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	Symptom	Possible causes		Solutions
1	no vacuum	pump rotating backward		reverse motor polarity
2		pump is running dry		feed seal liquid, check sealant piping
3	not enough vacuum, not enough capacity		sealant flow insufficient	increase sealant flow, check recirculation (pump)
4			cooling water temperature high	adjust c/w temp., increase c/w flow, clean cooler
5	excessive noise	cavitation	no flow at inlet	bleed non-condensables (air, N2) at inlet
6			seal liquid temperature too high	see line 3 or 4
7		overcompression	high discharge pressure	check discharge piping
8		excessive sealant flow		adjust sealant flow
9		coupling misalignment		realign coupling
10		pump not properly anchored		anchor
11	motor overload, high power consumption	excessive sealant flow		adjust sealant flow
12		overcompression	high discharge pressure	check discharge piping
13		coupling misalignment		realign coupling, check pump and motor anchoring
14		Defective bearing		replace bearing
15		Gland ring too tight		Loose gland ring
16				
17	Abnormal bearing wear	coupling misalignment		realign coupling, check pump and motor anchoring
18		defective shaft slinger		replace slinger
19				
20	pump overheating	seal liquid temperature too high		see line 3
21				
22	pump binding, shaft is seized	scaling		remove scale
23		foreign object in the pump		remove
24		clearances improperly set		reassemble pump
25	excessive shaft seal leakage	worn packing or mech-seals		replace