

12) PROBLEMS AND TROUBLESHOOTING

This chapter describes some troubles that may occur while operating the equipment. The following tables provide some useful suggestions on causes and remedies that will help the user solve the most common troubles.

WARNING:

The servicing operations authorised by ANGELANTONI INDUSTRIE spa are described in the "Ordinary servicing" chapter. The instructions given in the following tables under the heading 'REMEDIES' do not entitle the user to perform any intervention if they may seriously compromise the safety of the equipment. They are only aimed at helping skilled authorised technicians when trying to detect possible failures.

HEATING SYSTEM

FAULT	CAUSE	CHECKING	SUGGESTIONS
Chamber does not heat	Software does not switch "hot" on	Control panel or software faulty	Replace the control panel or software
	Max. thermostat intervention	Thermostat setting wrong or thermostat faulty	Reset thermostat or replace the instrument
	Heating contactor does not energize	Contactor coil faulty	Replace contactor coil
	Heating contactor energizes but chamber does not heat	Heating automatic switch open	Turn on the switch .and if it happens again, call for servicing
		Failure on heating contactor contacts	Replace the contactor contacts

COOLING SYSTEM

FAULT	CAUSE	CHECKING	SUGGESTIONS
Chamber does not cool	Software does not require "cold"	Control panel or software faulty	Replace the control panel or software
	Compressor does not work	Compressor contactor broken	Replace contactor
		Starting condenser broken	Replace the condenser (single-phase compressors)
		Thermal cut-out broken	Replace the thermal cut-off
		Thermal cut-out not calibrated	Reset the final test report values
	Compressor broken	Oil differential pressure cut-out intervention *	Reset by means of the pushbutton on the pressostat and if necessary on the control panel. If there are 2 or 3 repeated intervention first switch off the chamber and call immediatly for service.
		automatic switch open	Turn on the switch .and if it happens again,call for servicing
		Starting relay broken	Replace the relay (single-phase compres.)
		Terminals are loosen	Tighten terminals
		"Temperature" switch broken	Replace switch
LEGENDA :			
* Special chamber			

COOLING SYSTEM (continue)

FAULT	CAUSE	CHECKING	SUGGESTIONS
Chamber does not cool	Compressor starts on and off with continuous "cold" request	Max. pressure switch broken	Call for service to replace the pressure switch
		Pressure switch out of alignment	Reset the final test report values
		Condenser ventilator motor burnt-over	Replace the motor or rewind it
		Condenser finning clogged	Clean the condenser
		Compressor "klixon" intervention (up to 3 HP)	Check the electrical input and then eventually call for service
		Room temperature is too high	Ventilate the room
		Condenser fan rotation no correct (no suction) *	Exchange two phases (only for threphases motor)
Chamber does not cool	Compressor starts on and off with continuous "cold" request	Wintry pressostat faulty or out of alignment (°)	Reset the final test report values or call for the service
		Cooling water tap turned off (°)	Turn the tap on
		Condenser water valve faulty or out of alignment (°)	Reset the final test report values or call for the service to replace the valve
		Scarce water supply °°	Increase the water supply pressure
		Max. pressure switch intervention (°)	Compare calibration with final test report values. Remove the heads and swab the condenser stack
		Cooling water does not circulate: Condenser clogged (°)	Check the hydraulic system and clean the tube stack
		Cooling water does not circulate (°°)	Check the hydraulic system and tower water pumps
	Lack of cooling fluid	Check by using leak finder lamp	Call for service to charge again with cooling fluid
Chamber does not cool enough and compressor suction is very frosted	Injection solenoid valve does not work properly	Check if, even closed without electric supply, the valve let liquid passing through	Replace the solenoid valve
LEGEND : ° Remote air condenser °° Town water condenser °°° Tower water condenser * Special chamber			