

PMI at UIS (until 2012)



Activity	Quantity	Part number
Visual inspection concerning damages		
Visual inspection of door and interior seal, exchange if necessary		
Check door lock, locking rods and locking plates, adjust or replace if necessary		
Adjustment of exterior and inner glass door		
Functional test of air flap, if necessary clean exhaust pipe / flap		
If existing: test of interior fan		
If existing: check of supply air filter, clean or replace if necessary		
Functional test of cabinet rollers and brakes, replace if damaged / necessary		
For 400V devices: Replace contactor K1 (every 2 years)	1	E03649
For 400V devices: Replace main switch (every 2 years)	1	E05285
Check cooling fan for electronics		
Set time/date		
Functional test with different settings		
Safety test according to DGUV-V3 regulation		
Check / replace safety label		
Estimated work time in hours (without repairs / calibration work)	1	



Activity	Quantity	Part number
Visual inspection concerning damages		
Visual inspection of door and interior seals, exchange if necessary		
Check door lock, locking rods and locking plates, adjust or replace if necessary		
Adjustment of exterior and inner glass door		
Check door contacts, replace if necessary		
Measure door heater voltage (20V)		
Check door heater insulation against door surface		
Dismount top and back cover		
Renew sterile filter (4 pieces, 5 pieces if 2 gas connections)	4 (5)	E03401
Renew inside HEPA filter (after sterilization)	1	B04459
Examine steam generator regarding calcification, clean or replace it if necessary		
Check current consumption of steam generator		
Renew humidity regulation pump (every 2 years)	1	B23799
Renew water pump (every 3 years)	1	B38894
Renew humidity sensor (every 5 years)	1	E05249
additional, if device made prior 2011	1	B04543
Remount all panels and covers		
Set time/date		
Functional test with different settings (heating / humidification / CO2)		
Check Auto-Zero function		
Safety test according to DGUV-V3 regulation		
Check / replace safety label		
Estimated work time in hours (without repairs / calibration work)	4	

PMI at ICP (until 2012)



Activity	Quantity	Part number
Visual inspection concerning damages		
Visual inspection of door and interior seals, exchange if necessary		
Check door lock, locking rods and locking plates, adjust or replace if necessary		
Functional test of chamber fan		
Dismount top and back cover		
Check and clean condensate tubes (possibly with air blown through)		
Empty and clean drain pan		
Check condensate drain nippels whether bonded or clogged		
Functional test of cooling unit		
Clean chiller and cooling unit		
Check insulation of refrigeration lines concerning cracks/leaks, seal damaged areas with insulation tape if necessary		
If existing: functional test of light, if necessary replace light bulb		
Mount all covers		
Set time/date		
Functional test with different settings (heating/cooling)		
Safety test according to DGUV-V3 regulation		
Check / replace safety label		
Estimated work time in hours (without repairs / calibration work)	2	

PMI at ICH (C) (until 2012)



Activity	Quantity	Part number
Visual inspection concerning damages		
Visual inspection of door and interior seals, exchange if necessary		
Check door lock, locking rods and locking plates, adjust or replace if necessary		
Adjustment of exterior and inner glass door		
Dismount top and back cover		
Check switching power supplies		
Check current consumption of steam generator		
Examine steam generator regarding calcification, clean or replace it if necessary		
Renew hose pump (every 3 years)	1	B38894
Renew humidity sensor (every 5 years)	1	E05249
additional, if device made prior 2011	1	B04543
Cleaning of peltier heating sinks and fan		
Functional test of chamber fans		
Check and clean condensate tube (if necessary blow trough with air)		
Empty and clean drain pan		
Check condensate drain nippels whether bonded or clogged		
Functional test of cooling unit		
Clean chiller, fan of the cooling unit and housing base		
Check insulation of refrigeration lines concerning cracks/leaks, seal damaged areas with insulation tape if necessary		
If existing: functional test of light, if necessary replace light bulb		
If CO2 device: Check Auto-Zero function		
If CO2 device: Renew sterile filter (4 pieces, 5 pieces if 2 gas connections)	4 (5)	E03401
If CO2 device: Renew inside HEPA filter (after sterilization)	1	B04459
Mount all covers		
Set time/date		
Functional test with different settings (heating, cooling, etc.)		
Safety test according to DGUV-V3 regulation		
Check / replace safety label		
Estimated work time in hours (without repairs / calibration work)	4	

PMI at IPP IPS (until 2012)



Activity	Quantity	Part number
Visual inspection concerning damages		
Visual inspection of door and interior seals, exchange if necessary		
Check door lock, locking rods and locking plates, adjust or replace if necessary		
Adjustment of exterior and inner glass door		
Dismount top cover		
Dismount back and peltier cover		
Check switching power supplies		
Functional test of outer peltier fans		
Clean peltier heating sinks and fans		
Dismount peltier cover inside the chamber		
Functional test of inner peltier fans		
Clean peltier heating sinks and fans		
Check and clean condensate tube (if necessary blow trough with air)		
Empty and clean drain pan		
Check condensate drain nippels whether bonded or clogged		
Mount all covers		
Check cooling fan for electronics		
Set time/date		
Functional test with different settings (heating / cooling)		
Safety test according to DGUV-V3 regulation		
Check / replace safety label		
Estimated work time in hours (without repairs / calibration work)	2	

PMI at HPP (until 2012)



Activity	Quantity	Part number
Visual inspection concerning damages		
Visual inspection of door and interior seals, exchange if necessary		
Check door lock, locking rods and locking plates, adjust or replace if necessary		
Adjustment of exterior and inner glass door		
Dismount top cover		
Dismount back and peltier cover		
Check switching power supplies		
Functional test of outer peltier fans		
Clean peltier heating sinks and fans		
Empty and clean drain pan		
Check condensate drain nippels whether bonded or clogged		
Dismount peltier cover inside the chamber		
Fuctional test of inner peltier fans		
Clean peltier heating sinks and fans		
Check and clean condensate tube (if necessary blow trough with air)		
Functional test of door frame heater (adjust set point > 30°C, relais of door frame heater should switch, door is getting warm)		
If necessary: Retrofit door frame heating		
for HPP 108	1	B04558
for HPP 749	1	B04557
Examine steam generator regarding calcification, clean or replace it if necessary		
Check current consumption of steam generator		
Renew hose pump (every 3 years)	1	B38894
Renew humidity sensor (every 5 years)	1	E05249
if necessary renew cable for humidity sensor	1	B04543
Mount all covers		
Check cooling fan for electronics		
Set time/date		
Functional test with different settings (heating / cooling / humidification / dehumidificaton)		
Safety test according to DGUV-V3 regulation		
Check / replace safety label		
Estimated work time in hours (without repairs / calibration work)	3	

PMI at HCP (until 2018)



Activity	Quantity	Part number
Visual inspection concerning damages		
Visual inspection of door and interior seals, exchange if necessary		
Check door lock, locking rods and locking plates, adjust or replace if necessary		
Adjustment of exterior and inner glass door		
Check door contacts, replace if necessary		
Measure door heater voltage (20V)		
Check door heater insulation against door surface		
Dismount top and back cover		
Examine steam generator regarding calcification, clean or replace it if necessary		
Check current consumption of steam generator		
Renew sterile filter	2	E03401
Renew humidity regulation pump (every 2 years)	1	E03660
Renew hose pump (every 3 years)	1	B38894
Renew humidity sensor (every 5 years)	1	E05249
additional, if device made prior 2011	1	B04543
Remount all panels and covers		
Set time/date		
Functional test with different settings (heating / humidification / CO2)		
Safety test according to DGUV-V3 regulation		
Check / replace safety label		
Estimated work time in hours (without repairs / calibration work)	3	

PMI at VO (until 2018)



Activity	Quantity	Part number
Visual inspection concerning damages		
Check door lock, locking rods and locking plates, adjust or replace if necessary		
Visual inspection of door seal		
Renew door seal (every year)		
VO 200	1	E04670
VO 400	1	E04671
VO 500	1	E04672
Clean glass window and make sure that it can be easily moved		
Check flange sockets in the rear of the chamber, replace if necessary		
Check thermoshelves and contacts regarding damages, replace if necessary		
Thermoshelves: examine ohmic conditions of PT-100 sensor and heating elements		
Check cooling fan for electronics		
Set time/date		
Functional test with different settings		
Vacuum pump test: set LOW at the controller, if vacuum cannot reach less than 100mbar, open pump heads and renew diaphragms and valve plates regarding damages / abrasion		
Pressure test: set vacuum to 50mbar, leaking rate < 10mbar/h		
Safety test according to DGUV-V3 regulation		
Check / replace safety label		
Estimated work time in hours (without repairs / calibration work)	2	

PMI at water-/oilbaths



Activity	Quantity	Part number
Visual inspection concerning damages		
Functional cleaning of equipment and accessories		
If any, check mechanical TB and /or TWB / TWW		
If existing: check circulation pump		
If existing: check CDP water cooling facility		
If existing: check shaker		
Functional test with different settings		
Safety test according to DGUV-V3 regulation		
Check / replace safety label		
Estimated working time in hours (without repairs / calibration work)	1	