

# Annual check for eikon® e1s

**Task(s):** Annual Technician PM check

**Frequency:** Annual

**Time to complete:** 1hr - 3 hrs

**Model(s):** Merrychef eikon® e1s

## Safety information:

Please adhere to all Merrychef safety aspects at all times.



Electricity



Manual handling



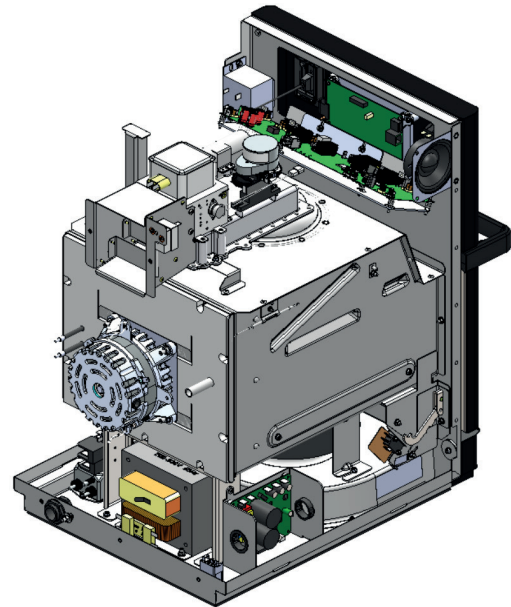
Hot liquids

## Annual PM check procedure

### Tools

Note\*: Please refer to e1s service manual for full details on all tests to be carried out by a trained Merrychef technician.

1. Microwave leak detector
2. Paper towel
3. Microwaveable bowl of water
4. \*Upper Impinger Pre-Oct 2019 DC0238  
\*Upper Impinger Post-Oct 2019 PDC0364
6. \*Cook Plate DC0322




## A. Task

<p><b>1</b></p> <p>Check the oven for obvious signs of damage and cleanliness. Switch the oven on and off with front switch, allow to cool down.</p>	<p><b>2</b></p> <p>Check the power cord and plug for damage and replace if required.</p>	<p><b>3</b></p> <p>Remove the air filter and check for damage, clean and insert or replace if required.</p>	<p><b>4</b></p> <p>Remove old cook plate and insert new cook plate DC0322.</p>
<p><b>5</b></p> <p>Check the door seal and ensure it is intact, not hanging loose or have any sections broken away. Replace if required PSB316.</p>	<p><b>6</b></p> <p>The impinge plate rests on brackets in the upper part of the cavity. To assist removal a larger hole is provided at the front of the plate big enough for to insert your finger.</p>	<p><b>7</b></p> <p>Remove the impinge plate from the cavity by pulling forward and slightly down.</p>	<p><b>8</b></p> <p>Inspect the plate and replace annually or if worn. Pre -Oct 2019 DC0238. Post-Oct 2019 PDC0364.</p>


## B. Task

**9**



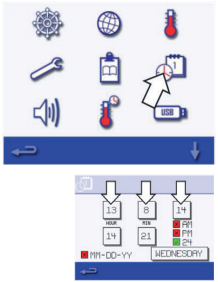
Switch the oven on, record the Serial Number and check the time and date are correct, check the firmware and update if required (Follow the process in the IOM Page 61) Press top right-hand corner on the screen to access the key board screen.

**10**




Enter the password **MANAGER** to access the settings menu.

**11**



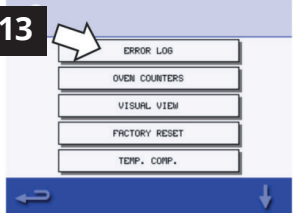
Ensure the date, day and time are set correctly and select OK. Refer to IOM page 84 for details.

**12**



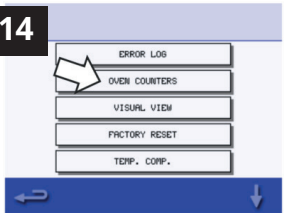
Press the spanner/tool symbol and enter the password **SERVICE** to access the service screen.

**13**



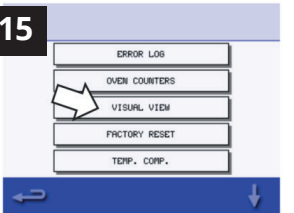
Check the "Error Log" for details of any logged appliance errors, reference any errors logged with the service manual Page 94.

**14**



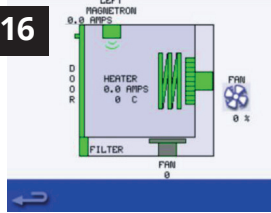
Select oven counters and reference the check sheet below for recommended replacements, advise the customer on actions required.

**15**



Select the visual view to perform initial tests.

**16**



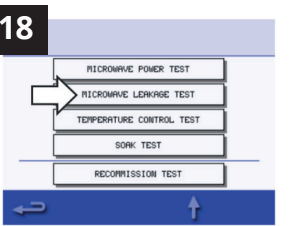
In visual view select the components in the next section, they will turn red when operating.

**17**

1. Check cooling fan operation & record
2. Check hot air motor rotation and speed control & record
3. Check magnetron current & record
4. Check heating element current & record
5. Check door activation & record

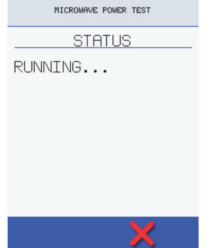
Check all components in accordance with the service manual and recommended replacements as stated below.

**18**




Exit out of visual view, place bowl with 275 ml of cold water in cavity and select Microwave Leakage test.

**19**




While the test is running hold the test probe at right angles to the oven and hold about 50mm away from the surface.

**20**



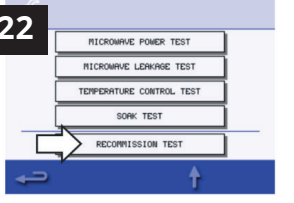
Test the areas marked in yellow above. Level must be 5mW/cm2 or lower. Record.

**21**



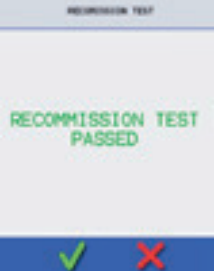
Test the areas marked in yellow above. Level must be 5mW/cm2 or lower. Record.

**22**




Finally, with the bowl of water still inside the cavity, select the recommission test (if the recommission test is greyed out, it means the oven is above the desired temperature).

**23**



Follow the onscreen instruction and record result. Carefully remove bowl and discard water.

**24**



Record serial number of unit and ensure oven heats up and cooks one item of food.

Planned preventative maintenance schedule for Merrychef eikon® e1s 50Hz/60Hz commercial combination oven			Daily	12 months	24 months	48 months	Part no.	Comments
Item	Description	Commissioning	Operator	OCIE check				
1	Check installation and surroundings as per installation instructions	✓	✓	✓	✓	✓		For Operator to check
2	Check cook baskets for damage and replace if required.	✓	✓	✓	✓	✓		For Operator to check
3	Check oven cook plate for cleanliness and replace as required		✓	✓	✓	✓	DC0322	Optional if damaged
4	Check air filter and clean	✓	✓	✓	✓	✓	SC349	Optional if damaged/missing
5	Inspect upper impinger plate and replace every 24 Months **			✓	✓	✓	PDC0364 †	Replace every 24 months
6	Inspect partition plate for signs of damage (replace if required)			✓	✓	✓	SC344	Optional if damaged
7	Check oven for damage			✓	✓	✓		
8	Check condition of mains lead and plug			✓	✓	✓		
9	Clean oven as per user instructions		✓					
10	Check and clean steam vent pipe if required.			✓	✓	✓		
11	Check door seal condition and replace every 24 Months **				✓	✓	PSB316	Replace every 24 Months or when damaged
12	Check door operation		✓	✓	✓	✓		
13	Replace door hinges after 150,000 operations		✓	✓	✓	✓	31Z1374 (x2)	Optional if nearing 150,000 operations or 48 months
14	Check on/off switch operation		✓	✓	✓	✓	30Z1584	Replace 24 Months
15	Check touch screen condition and operation (calibrate if required)			✓	✓	✓		
16	Review & replace touch screen overlay as necessary			✓	✓	✓	DC0245	Optional if damaged
17	Check and record oven counter screen			✓	✓	✓		
18	Check & record amp draw (heating element and magnetron)			✓	✓	✓		
19	Check cooling fan operation	✓		✓	✓	✓		
20	Check oven temperature calibration			✓	✓	✓		
21	Check all internal electrical connections (adhere to all safety aspects of the oven as per the ovens safety guide)			✓	✓	✓		
22	Check stirrer motor is rotating			✓	✓	✓	PSC223	Optional if damaged
23	Replace magnetron ***					✓	P30Z1472	(1500 Mag Hours) or 48 months
24	Replace door switches (use door switch kit PSC128)			✓	✓	✓	PSC128	Replace 24 Months
25	Refit all panels and plug the unit in to the electrical supply			✓	✓	✓		
26	Switch the oven on			✓	✓	✓		
27	Download error log file			✓	✓	✓		
28	Download cook count file			✓	✓	✓		
29	Vacuum out casework	✓		✓	✓	✓		
30	Complete recommission test and service report			✓	✓	✓		
Total hrs/mins			0.5hrs	1hr	2hrs	3hrs		

- = checks that can be completed in visual view and should only take 10min to attend to and record findings in the results column
- = Optional outside of PM requirement
- = Mandatory
- = Daily operational checks

\*\* Recommend replacing every 24 months

\*\*\* Recommend replacing every 48 months

† If oven is pre-Oct 2019 use DC0238 - impinger plate