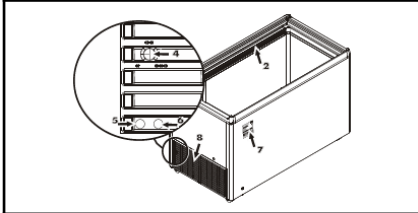
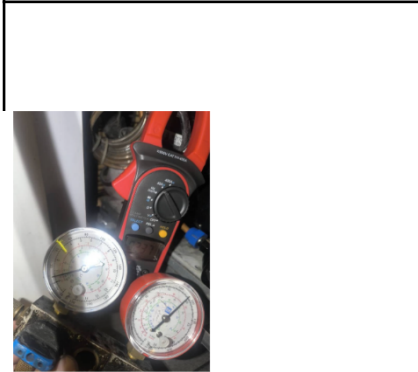


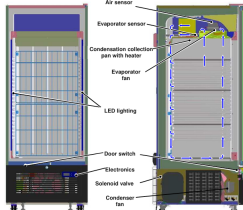
	Ensure to re-stock Refrigerator Spare Part Kit. Each technical transport require 1 complete set standby for immediate action if requested from any Inside Scoop Outlet. Refrigerator Storage Box : Capacitor, Motor Fan, Blade, Filter Dryer & etc. Refrigerator Compartment Box : Overload, Relay, Potential Relay, OMRON & etc. Mandatory Storage Box : Meter Gauge, Vacuum, Clamp/Multi Meter, Digital Scale & etc.
	Check all power supply 240V starting from Wall Socket, Plug Top, Fuse, Button Switch, LED Light, Thermostat & Compressor/Motor Trip Issues: Identify and ensure every electrical component in good condition, if identify faulty component replace it immediately. However if beyond your experience refer to expert/superior. Otherwise follow next step below.
 REPORT PRACTICE METHODS Step 1: Take Reading Clamp Meter & Manifold Gauge in 1 Picture Step 2: Report condition unit status • Amp Reading/Actual 1.2A/1.0A • Gas Type & Pressure R404 : 5Psi • Evap/Room Temp -25C • Condensor Temp 50C • Compressor Temp 80C	Temp Abnormal Issues: Check temperature set point should be -18C till -23C. Otherwise consider abnormal. Check Compressor: Connect compressor with Clamp Meter & Manifold Gauge the reading should be 1.0A: 5-20PSI. Also take compressor temperature reading should be range 70-90C otherwise consider overheat. Compressor Not Running: Check Run/Start Capacitor using Clamp/Multi Meter Probe. Then check Overload/Relay/Potential Relay by ensuring circuit flow using test pen/continuity test. If identify faulty unit replace with new immediately then test run and take reading again, otherwise compressor out of order. Compressor Running: Clear existing gas and vacuum the refrigerant system for 15minutes. Then re-new gas refrigerant by applying scale method following nameplate 50g, test run unit within 30 minutes if temperature achievable to set point then okay, otherwise follow next step below.
	Check Filter Dryer & Capillary Tube: Identify deferential temp between in/out pipe, it's should be warm on both side, otherwise means clogging. Others method, cut piping and check gas/refrigerant flow. Replace Filter Dryer Copper: Prepared welding/torch set and copper equipment. Be sure your safety first, then begin the replacement work. Repair Capillary Tube: Cut few inches cap tube and check if clogging/dirt until presentable clean. Then welding/torch its back as before.
	All step has been apply as practice, outcome are still abnormal. Change compressor by following nameplate () due to performance drop/high amp/overheat/out of order.

* If your are an experince technician & all above has been implemented but still abnormal you may skip some step or apply alternative method.

LIEBHERR **embraco**

LIEBHERR FV3613: CAKE DISPLAY FREEZER

Dixell

	Ensure to re-stock Refrigerator Spare Part Kit. Each technical transport require 1 complete set standby for immediate action if requested from any Inside Scoop Outlet. Refrigerator Storage Box : Capacitor, Motor Fan, Blade, Filter Dryer Refrigerator Compartment Box : Overload, Relay, Potential Relay, OMRON Mandatory Storage Box : Meter Gauge, Vacuum, Clamp/Multi Meter, Digital Scale
	Check all power supply 240V starting from Wall Socket, Plug Top, Fuse, Digital Thermostat, LED Light, LED Power Supply 12V (Mini), Thermostat & Compressor/Motor. Trip Issues: Identify and ensure every electrical component in good condition, if identify faulty component replace it immediately. However if beyond your experience refer to expert/superior. Otherwise follow next step below.
 METHODS Step 1: De-Frost Setting Step 2: Run & Temp Logger Step 3: Next Step TIME 20-40 Minutes 20-30 Minutes 2 Attempts	Digital Thermostat: Check parameter stability by ensuring probe reading meet actual temperature. Then test de-frost for 20-40 minutes if drain water dry continue next step, if water dripping means ice build at evaporator test run for 20 minutes after defrost to confirming circulation system conditions. If Error Code showed please refer manual book. However if beyond your experience refer to expert/superior. Otherwise follow next step below.
 REPORT PRACTICE METHODS Step 1: Take Reading Clamp Meter & Manifold Gauge in 1 Picture Step 2: Report condition unit status - Amp Reading/Actual 2.4A/2A - Gas Type & Pressure R290 : 20Psi - Evap./Room Temp -23C - Condensor Temp 50C - Compressor Temp 80C	Temp Abnormal Issues: Check temperature set point should be -18C till -23C. Otherwise consider abnormal. Check Compressor: Connect compressor with Clamp Meter & Manifold Gauge the reading should be 2.0A: 5-20PSI. Also take compressor temperature reading should be range 70-90C otherwise consider overheat. Compressor Not Running: Check Run/Start Capacitor (10µF/75µF) using Clamp/Multi Meter Probe. Then check Overload/Potential Relay by ensuring circuit flow using test pen/continuity test. If identify faulty unit replace with new immediately then test run and take reading again, otherwise compressor out of order. Compressor Running: Clear existing gas and vacuum the refrigerant system for 15minutes. Then re-new gas refrigerant by applying scale method following nameplate 380g, test run unit within 30 minutes if temperature achievable to set point then okay, otherwise follow next step below.
	Check Filter Dryer & Capillary Tube: Identify deferential temp between in/out pipe, it's should be warm on both side, otherwise means clogging. Others method, cut piping and check gas/refrigerant flow. Replace Filter Dryer Copper: Prepared welding/torch set and copper equipment. Be sure your safety first, then begin the replacement work. Repair Capillary Tube: Cut few inches cap tube and check if clogging/dirt until presentable clean. Then welding/torch its back as before. Check/Replace Solenoid Valve: Check rotation of solenoid valve via Danfoss Application/Special Tools. If no movement means system faulty either no power supply or out of order. Otherwise, valve mechanical malfunction.



All step has been apply as practice, outcome are still abnormal. Change compressor by following nameplate **AMBRACO: NEU2168U: $\frac{3}{4}$ HP** due to performance drop/high amp/overheat/out of order.

* If your are an experience technician & all above has been implemented but still abnormal you may skip some step or apply alternative method.







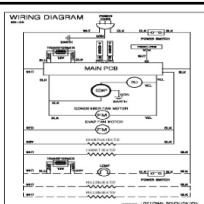


Ensure to re-stock **Refrigerator Spare Part Kit**. Each technical transport require 1 complete set standby for immediate action if requested from any Inside Scoop Outlet.

Refrigerator Storage Box : Capacitor, Motor Fan, Blade, Filter Dryer

Refrigerator Compartment Box : Overload, Relay, Potential Relay, OMRON

Mandatory Storage Box : Meter Gauge, Vacuum, Clamp/Multi Meter, Digital Scale



Check all power supply 240V starting from Wall Socket, Plug Top, Fuse, Digital Thermostat, LED Light, LED Power Supply 12V (Mini), Thermostat & Compressor/Motor.

Trip Issues: Identify and ensure every **electrical component in good condition**, if identify faulty component replace it immediately. However if beyond your experience refer to expert/superior. Otherwise follow next step below



METHODS

Step 1: De-Frost Setting
Step 2: Run & Temp Logger
Step 3: Next Step

TIMES

20-40 Minutes
20-30 Minutes
2 Attempt

Digital Thermostat/Screen: Check parameter stability by ensuring probe reading meet actual temperature. Then test de-frost for 20-40 minutes if drain water dry continue next step, if water dripping means ice build at evaporator test run for 20 minutes after defrost to confirming circulation system conditions. If Error Code showed please refer manual book. However if beyond your experience refer to expert/superior. Otherwise follow next step below.



REPORT PRACTICE METHODS

Step 1: Take Reading Clamp Meter & Manifold Gauge in 1 Picture

Step 2: Report condition unit status

- Amp Reading/Actual 2.4A/3A
- Gas Type & Pressure R404 : 20Psi
- Evap/Room Temp -23C
- Condensor Temp 45C
- Compressor Temp 70C

Temp Abnormal Issues: Check temperature set point should be **-18C till -23C**. Otherwise consider abnormal

Check Compressor: Connect compressor with Clamp Meter & Manifold Gauge the reading should be **2.0A: 5-20PSI**. Also take compressor temperature reading should be range **70-90C** otherwise consider overheat.

Compressor Not Running: Check **Run/Start Capacitor (15μF/97μF)** using Clamp/Multi Meter Probe. Then check **Overload/Relay** by ensuring circuit flow using test pen/continuity test. If identify faulty unit replace with new immediately then test run and take reading again, otherwise compressor out of order.

Compressor Running: Clear existing gas and vacuum the refrigerant system for 15minutes. Then re-new gas refrigerant by applying **scale method following nameplate 360g-380g**, test run unit within 30 minutes if temperature achievable to set point then okay, otherwise follow next step below.



Check Filter Dryer & Capillary Tube: Identify deferential temp between in/out pipe, it's should be warm on both side, otherwise means clogging. Others method, cut piping and check gas/refrigerant flow.

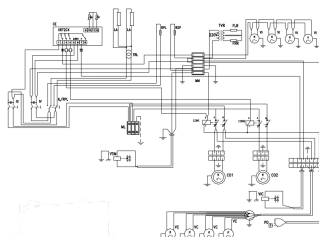
Replace Filter Dryer $\frac{1}{2}$: Prepared welding/torch set and copper equipment. Be sure your safety first, then begin the replacement work.

Repair Capillary Tube: Cut few inches cap tube and check if clogging/dirt until presentable clean. Then welding/torch its back as before

	All step has been apply as practice, outcome are still abnormal. Change compressor by following nameplate KULHON: AE2425ZK: $\frac{1}{3}$HP due to performance drop/high amp/overheat/out of order. Other alternative compressor will be TECUMSEH: AE2425 / EMBRACO: NT2182GK
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*If your are an experience technician & all above has been implemented but still abnormal you may skip some step or apply alternative method.



	Ensure to re-stock Refrigerator Spare Part Kit. Each technical transport require 1 complete set standby for immediate action if requested from any Inside Scoop Outlet. Refrigerator Storage Box : Capacitor, Motor Fan, Blade, Filter Dryer, Solenoid Refrigerator Compartment Box : Overload, Relay, Potential Relay, OMRON Mandatory Storage Box : Meter Gauge, Vacuum, Clamp/Multi Meter, Digital Scale
	Check all power supply 240V starting from Wall Socket, Plug Top, Fuse, Digital Thermostat, LED Light, LED Power Supply 12V, Thermostat, Solenoid, Relay & Compressor/Motor. Trip Issues: Identify and ensure every electrical component in good condition, if identify faulty component replace it immediately. Via experience, double check OMRON Relay & Solenoid. However if beyond your experience refer to expert/superior. Otherwise follow next step below
 METHODS Step 1: De-Frost Setting Step 2: Run & Temp Logger Step 3: Next Step TIME 20-40 Minutes 20-30 Minutes 2 Attempts	Digital Thermostat: Check parameter stability by ensuring probe reading meet actual temperature. Then test de-frost for 20-40 minutes if drain water dry continue next step, if water dripping means ice build at evaporator test run for 20 minutes after defrost to confirming circulation system conditions. If Error Code showed please refer manual book. However if beyond your experience refer to expert/superior. Otherwise follow next step below.
 REPORT PRACTICE METHODS Step 1: Take Reading Clamp Meter & Manifold Gauge in 1 Picture Step 2: Report condition unit status - Amp Reading/Actual 2.4A/3A - Gas Type & Pressure R404 : 20Psi - Evap/Room Temp -23C - Condensor Temp 45C - Compressor Temp 70C	Temp Abnormal Issues: Check temperature set point should be -18C till -23C. Otherwise consider abnormal Check Compressor: Connect compressor with Clamp Meter & Manifold Gauge the reading should be 7.0-9.0A: 5-20PSI. Also take compressor temperature reading should be range 70-90C otherwise consider overheat. Compressor Not Running: Check Run/Start Capacitor (15μF/170μF) using Clamp/Multi Meter Probe. Then check Overload/Potential Relay by ensuring circuit flow using test pen/continuity test. If identify faulty unit replace with new immediately then test run and take reading again, otherwise compressor out of order. Compressor Running: Clear existing gas and vacuum the refrigerant system for 15minutes. Then re-new gas refrigerant by applying scale method following nameplate 6kg for 2 Compressor, test run unit within 30 minutes if temperature achievable to set point then okay, otherwise follow next step below.

These benchmarks are guidelines for technical understanding. Your experience information are our asset for continuous improvement for future technicians inside scoop.

	Check Filter Dryer & Capillary Tube: Identify deferential temp between in/out pipe, it's should be warm on both side, otherwise means clogging. Others method, cut piping and check gas/refrigerant flow. Replace Filter Dryer$\frac{1}{2}$: Prepared welding/torch set and copper equipment. Be sure your safety first, then begin the replacement work. Repair Capillary Tube: Cut few inches cap tube and check if clogging/dirt until presentable clean. Then welding/torch its back as before Check/Replace Solenoid Valve: Check rotation of solenoid valve via Danfoss Application/Special Tools. If no movement means system faulty either no power supply or out of order. Otherwise, valve mechanical malfunction.
	All step has been apply as practice, outcome are still abnormal. Change compressor by following nameplate EMBRACO: NJ2192GK: 1$\frac{1}{4}$ HP due to performance drop/high amp/overheat/out of order. Other alternative compressor will be TECUMSEH: AK2448Z-AA3C

*If your are an experience technician & all above has been implemented but still abnormal you may skip some step or apply alternative method.

	Ensure to re-stock Refrigerator Spare Part Kit. Each technical transport require 1 complete set standby for immediate action if requested from any Inside Scoop Outlet. Refrigerator Storage Box : Capacitor, Motor Fan, Blade, Filter Dryer Refrigerator Compartment Box : Overload, Relay, Potential Relay, OMRON Mandatory Storage Box : Meter Gauge, Vacuum, Clamp/Multi Meter, Digital Scale
	Check all power supply 240V starting from Wall Socket, Plug Top, Fuse, Digital Thermostat, LED Light, LED Power Supply 12V (Mini), Thermostat & Compressor/Motor. Trip Issues: Identify and ensure every electrical component in good condition, if identify faulty component replace it immediately. However if beyond your experience refer to expert/superior. Otherwise follow next step below
METHODS Step 1: De-Frost Setting Step 2: Run & Temp Logger Step 3: Next Step TIME 20-40 Minutes 20-30 Minutes 2 Attempts	Digital Thermostat: Check parameter stability by ensuring probe reading meet actual temperature. Then test de-frost for 20-40 minutes if drain water dry continue next step, if water dripping means ice build at evaporator test run for 20 minutes after defrost to confirming circulation system conditions. If Error Code showed please refer manual book. However if beyond your experience refer to expert/superior. Otherwise follow next step below.
REPORT PRACTICE METHODS Step 1: Take Reading Clamp Meter & Manifold Gauge in 1 Picture Step 2: Report condition unit status - Amp Reading/Actual 1.2A/1.0A - Gas Type & Presure R134 : 15Psi - Evap./Room Temp 4C - Condensor Temp 45C - Compressor Temp 70C	Temp Abnormal Issues: Check temperature set point should be 1C till 4C. Otherwise consider abnormal Check Compressor: Connect compressor with Clamp Meter & Manifold Gauge the reading should be 2.0A: 10-15PSI. Also take compressor temperature reading should be range 70-90C otherwise consider overheat. Compressor Not Running: Check Run/Start Capacitor (15μF/97μF) using Clamp/Multi Meter Probe. Then check Overload/Relay by ensuring circuit flow using test pen/continuity test. If identify faulty unit replace with new immediately then test run and take reading again, otherwise compressor out of order. Compressor Running: Clear existing gas and vacuum the refrigerant system for 15minutes. Then re-new gas refrigerant by applying scale method following nameplate 360g-380g, test run unit within 30 minutes if temperature achievable to set point then okay, otherwise follow next step below.

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	Check Filter Dryer & Capillary Tube: Identify deferential temp between in/out pipe, it's should be warm on both side, otherwise means clogging. Others method, cut piping and check gas/refrigerant flow. Replace Filter Dryer$\frac{1}{2}$: Prepared welding/torch set and copper equipment. Be sure your safety first, then begin the replacement work. Repair Capillary Tube: Cut few inches cap tube and check if clogging/dirt until presentable clean. Then welding/torch its back as before
	All step has been apply as practice, outcome are still abnormal. Change compressor by following nameplate KULHON: AE2425ZK: $\frac{1}{3}$HP due to performance drop/high amp/overheat/out of order. Other alternative compressor will be TECUMSEH: AE2425 / EMBRACO: NT2182GK

*If your are an experince technician & all above has been implemented but still abnormal you may skip some step or apply alternative method.

hiber embraco SAGI KAGL6B-OP14: SINGLE DOOR BLAST FREEZER

	Ensure to re-stock Refrigerator Spare Part Kit. Each technical transport require 1 complete set standby for immediate action if requested from any Inside Scoop Outlet. Refrigerator Storage Box : Capacitor, Motor Fan, Blade, Filter Dryer Refrigerator Compartment Box : Overload, Relay, Potential Relay, OMRON Mandatory Storage Box : Meter Gauge, Vacuum, Clamp/Multi Meter, Digital Scale
	Check all power supply 240V starting from Wall Socket, Plug Top, Fuse, Digital Thermostat, LED Light, LED Power Supply 12V (Mini), Thermostat & Compressor/Motor. Trip Issues: Identify and ensure every electrical component in good condition, if identify faulty component replace it immediately. However if beyond your experience refer to expert/superior. Otherwise follow next step below
	Digital Thermostat: Check parameter stability by ensuring probe reading meet actual temperature. Then test de-frost for 20-40 minutes by pressing MENU 5 Second then ENTER. If Error Code showed please refer manual book. However if beyond your experience refer to expert/superior. Otherwise follow next step below.
 REPORT PRACTICE METHODS Step 1: Take Reading Clamp Meter & Manifold Gauge in 1 Picture Step 2: Report condition unit status - Amp Reading/Actual 1.2A/1.0A - Gas Type & Presure R134 : 15Psi - Evap/Room Temp 4C - Condesor Temp 45C - Compressor Temp 70C	Temp Abnormal Issues: Check temperature set point should be -18C till -23C. Otherwise consider abnormal Check Compressor: Connect compressor with Clamp Meter & Manifold Gauge the reading should be 4.0A: 30-35PSI for low side & 270-290PSI for high side. Also take compressor temperature reading should be range 70-90C otherwise consider overheat. Compressor Not Running: Check Run/Start Capacitor (15μF/97μF) using Clamp/Multi Meter Probe. Then check Overload/Relay by ensuring circuit flow using test pen/continuity test. If identify faulty unit replace with new immediately then test run and take reading again, otherwise compressor out of order. Compressor Running: Clear existing gas and vacuum the refrigerant system for 15minutes. Then re-new gas refrigerant by applying scale method following

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	nameplate 360g-380g, test run unit within 30 minutes if temperature achievable to set point then okay, otherwise follow next step below.
	Check Filter Dryer & Capillary Tube: Identify differential temp between in/out pipe, it's should be warm on both side, otherwise means clogging. Others method, cut piping and check gas/refrigerant flow. Replace Filter Dryer$\frac{1}{2}$: Prepared welding/torch set and copper equipment. Be sure your safety first, then begin the replacement work. Repair Capillary Tube: Cut few inches cap tube and check if clogging/dirt until presentable clean. Then welding/torch its back as before
	All step has been apply as practice, outcome are still abnormal. Change compressor by following nameplate EMBRACO: NT2192GK: 1$\frac{1}{4}$HP due to performance drop/high amp/overheat/out of order. Other alternative compressor will be

*If your are an experince technician & all above has been implemented but still abnormal you may skip some step or apply alternative method.