

TLES6.5FT.3 ,Energy-optimized  
,Tropical , R134a 220-240V ,50Hz ,  
1/4 hp , COMPRESOR DANFOSS SECOP ,  
183 W , LBP

Category: Technologie,Tester ok  
written by [www.mbsm.pro](http://www.mbsm.pro) | 19 April 2020



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TLES6.5FT.3 ,Energy-optimized ,Tropical , R134a 220-240V ,50Hz , 1/4 hp ,  
COMPRESOR DANFOSS SECOP

# High Efficiency Refrigerator , Compressor , Lbp ,QD65H ,1/5HP ,60Hz ,6.5CC, 185W ,R134a ,LBP Piston Reciprocationg

Category: Technologie,Tester ok

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High Efficiency Refrigerator , Compressor , Lbp ,QD65H ,1/5HP 60Hz 6.5CC 185W

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## QD110H , Chest Freezer Compressor ,1/3HP ,220V/50Hz ,R134A

Category: Technologie,Tester ok

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1/3HP Refrigeration Compressor 220V/50Hz R134A

AC Compressor: R134A Hermetic LBP Piston Reciprocationg Compressor

Model: WQ110H

Power Supply: 220-240/50-60V/Hz

Displacement: 11CC

Nominal Power: 1/3HP

Rated Power: 233W

Cooling Capacity: 280W

COP: 1.20W/W

Motor Type: RSIR

Starting relay: Starting Relay/PTC

Starting Capacitor: / $\mu$  F

Running Capacitor: / $\mu$  F

Cooling Type: F

Application: LBP

Certificate: 3C

1X20'FCL: 1600PCS



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**Application:**

LBP: Low back pressure; Refrigerator, Freezer, Wine cooler

MBP: Medium Back Pressure; Air-conditioner, vending machine

HBP: High Back Pressure: Air-conditioner, ice maker

LBP ASHRAE Test Condition:

Evaporation Temperature: -23.3 °C

Condensing Temperature: 54.4 °C

Subcooling Temperature: 32.2 °C

Ambient Temperature: 32.2 °C

MBP ASHRAE Test condition:

Evaporation Temperature: -5 °C

Condensing Temperature: 54.4 °C

Ambient Temperature: 35 °C

Subcooling Temperature: 46.1

Suction Temperature: 35 °C

HBP ASHRAE Test condition:

Evaporation Temperature: 7.2°C

Condensing Temperature: 54.4°C

Ambient Temperature: 35°C

Subcooling Temperature: 46.1°C

Suction Temperature: 35°C

Parameter Variation Range:

Cooling Capacity:  $\geq 95\%$

Input Power:  $\leq 115\%$

Current:  $\leq 110\%$

COP:  $\geq 95\%$

Cooling Type:

S: Natural cooling

F1: Fan cooling, 200mm fan diameter, 1.5m/s air speed

F2: Fan cooling, 200mm fan diameter, 3m/s air speed

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## HPL25YE-5-K , DAEWOO COMPRESSOR , FOR REFRIGERATOR , 1/4 Hp , 220/240 V , R134A

Category: Technologie, Tester ok

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HPL25YE-5-K , DAEWOO COMPRESSOR ,FOR REFRIGERATOR ,1/4 Hp , 220/240 V , R134A

# Fatal and serious errors in not passing the tubes in ordinary or thermal insulators in normal plumbing or central heating

Category: Solutions

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You need to do this





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أخطاء فادحة وخطيرة في عدم تمرير الانابيب في عوازل عادية او حرارية في أعمال  
السباكة العادية او التدخين المركزي

# Erreur grave ,Fuite cuivre sans isolation plastique

Category: Plomberie

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Erreur grave ,Fuite cuivre sans isolation plastique

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## Choice Of Capilllary , EMBARACO ASPERA

Category: Tester ok

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## R 290 - R 404A - R 507 - MBP Applications

| COMPRESSOR         | FREQUENCY | DIMENSION                           |                                     |
|--------------------|-----------|-------------------------------------|-------------------------------------|
|                    |           | (from -20°C to -5°C<br>evap. temp.) | (from -5°C to +15°C<br>evap. temp.) |
| T6220GK            | 50 Hz     | 1.37 mm I.D. × 1.90 m               | 1.37 mm I.D. × 1.50 m               |
| NT6220U - NT6220GK | 60 Hz     | 1.37 mm I.D. × 1.65 m               | 1.63 mm I.D. × 1.75 m               |
| T6222GK            | 50 Hz     | 1.37 mm I.D. × 1.60 m               | 1.63 mm I.D. × 1.70 m               |
| NT6222U - NT6222GK | 60 Hz     | 1.63 mm I.D. × 2.85 m               | 1.63 mm I.D. × 1.55 m               |
| NJ9226GK           | 50 Hz     | 1.63 mm I.D. × 2.75 m               | 1.63 mm I.D. × 1.60 m               |
| NT6224U - NT6226GK | 60 Hz     | 1.63 mm I.D. × 2.35 m               | 1.90 mm I.D. × 1.80 m               |
| NJ9232GK           | 50 Hz     | 1.90 mm I.D. × 2.65 m               | 2.16 mm I.D. × 2.05 m               |
|                    | 60 Hz     | 1.90 mm I.D. × 2.00 m               | 2.16 mm I.D. × 1.60 m               |
|                    | 50 Hz     | 2.16 mm I.D. × 2.45 m               | 2×1.63 mm I.D. × 1.70 m             |
|                    | 60 Hz     |                                     |                                     |

PictureS Mbsm Dot Pro : [www.mbsm.pro](http://www.mbsm.pro)

## R 290 - R 404A - R 507 - LBP Applications

| COMPRESSOR            | FREQUENCY | DIMENSION                            |   |
|-----------------------|-----------|--------------------------------------|---|
|                       |           | (from -40°C to -10°C<br>evap. temp.) | - |
| NEK2121U - NEK2125U   | 50 Hz     | 0.91 mm I.D. × 4.0 m                 | - |
| NE2125GK - NEK2125GK  | 60 Hz     | 0.91 mm I.D. × 3.5 m                 | - |
| EMT2121U - EMT2125U   |           |                                      |   |
| EMT2125GK - EMT2125GK |           |                                      |   |
| NEK2130GK - NEK2134GK | 50 Hz     | 0.91 mm I.D. × 3.0 m                 | - |
| NE2134GK - NEK2134U   | 60 Hz     | 0.91 mm I.D. × 2.65 m                | - |
| T2140GK - NEK2150U    | 50 Hz     | 0.91 mm I.D. × 2.7 m                 | - |
|                       | 60 Hz     | 0.91 mm I.D. × 2.4 m                 | - |
| T2155GK               | 50 Hz     | 1.20 mm I.D. × 4.1 m                 | - |
|                       | 60 Hz     | 1.20 mm I.D. × 3.6 m                 | - |
| T2168GK - NT2168GK    | 50 Hz     | 1.20 mm I.D. × 3.4 m                 | - |
|                       | 60 Hz     | 1.20 mm I.D. × 3.0 m                 | - |
| T2178GK               | 50 Hz     | 1.20 mm I.D. × 3.1 m                 | - |
| NT2178GK - NT2160U    | 60 Hz     | 1.20 mm I.D. × 2.75 m                | - |
| T2180GK               | 50 Hz     | 1.20 mm I.D. × 2.9 m                 | - |
| NT2180GK - NT2170U    | 60 Hz     | 1.20 mm I.D. × 2.55 m                | - |
| NJ2192GK - NJ2192GS   | 50 Hz     | 1.40 mm I.D. × 3.5 m                 | - |
| NT2192GK - N2180U     | 60 Hz     | 1.40 mm I.D. × 3.1 m                 | - |
| NJ2212GK - NJ2212GS   | 50 Hz     | 1.60 mm I.D. × 3.5 m                 | - |

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### R 290 - R 404A - R 507 - MBP Applications

| COMPRESSOR         | FREQUENCY | DIMENSION                           |                                     |
|--------------------|-----------|-------------------------------------|-------------------------------------|
|                    |           | (from -20°C to -5°C<br>evap. temp.) | (from -5°C to +15°C<br>evap. temp.) |
| T6220GK            | 50 Hz     | 1.37 mm I.D. × 1.90 m               | 1.37 mm I.D. × 1.50 m               |
| NT6220U - NT6220GK | 60 Hz     | 1.37 mm I.D. × 1.65 m               | 1.63 mm I.D. × 1.75 m               |
| T6222GK            | 50 Hz     | 1.37 mm I.D. × 1.60 m               | 1.63 mm I.D. × 1.70 m               |
| NT6222U - NT6222GK | 60 Hz     | 1.63 mm I.D. × 2.85 m               | 1.63 mm I.D. × 1.55 m               |
| NJ9226GK           | 50 Hz     | 1.63 mm I.D. × 2.75 m               | 1.63 mm I.D. × 1.60 m               |
| NT6224U - NT6226GK | 60 Hz     | 1.63 mm I.D. × 2.35 m               | 1.90 mm I.D. × 1.80 m               |
| NJ9232GK           | 50 Hz     | 1.90 mm I.D. × 2.65 m               | 2.16 mm I.D. × 2.05 m               |
|                    | 60 Hz     | 1.90 mm I.D. × 2.00 m               | 2.16 mm I.D. × 1.60 m               |
|                    | 50 Hz     | 2.16 mm I.D. × 2.45 m               | 2×1.63 mm I.D. × 1.70 m             |

PictureS Mbsm Dot Pro : [www.mbsm.pro](http://www.mbsm.pro)

### R 600a - LBP Applications

| COMPRESSOR                                 | FREQUENCY | DIMENSION                            |                                     |
|--------------------------------------------|-----------|--------------------------------------|-------------------------------------|
|                                            |           | (from -30°C to -15°C<br>evap. temp.) | (from -15°C to -5°C<br>evap. temp.) |
| EMU26CLC                                   | 50 Hz     | 0.66 mm I.D. × 4.00 m                | 0.66 mm I.D. × 3.45 m               |
| EMT26CLP                                   | 50 Hz     | 0.66 mm I.D. × 3.80 m                | 0.66 mm I.D. × 3.30 m               |
| EMU32CLC                                   | 50 Hz     | 0.66 mm I.D. × 3.60 m                | 0.78 mm I.D. × 3.60 m               |
| EMT32CLP                                   | 50 Hz     | 0.78 mm I.D. × 3.60 m                | 0.91 mm I.D. × 3.60 m               |
| EMT40CLP-EMU40CLC                          | 50 Hz     | 0.78 mm I.D. × 3.50 m                | 0.91 mm I.D. × 3.50 m               |
| NBM1112Y - NBT1112Y<br>NBU1112Y            | 50 Hz     | 0.78 mm I.D. × 3.40 m                | 0.91 mm I.D. × 3.40 m               |
| EMT45CLP - EMU46CLC                        |           |                                      |                                     |
| NBM1114Y - NBU1114Y<br>NBT1114Y - EMT56CLP | 50 Hz     | 0.78 mm I.D. × 3.20m                 | 0.91 mm I.D. × 3.20 m               |
| NBK1116Y - NBU1116Y<br>NBT1116Y            | 50 Hz     | 0.78 mm I.D. × 3.00 m                | 0.91 mm I.D. × 3.00 m               |
| NBK1118Y - NBU1118Y                        | 50 Hz     | 0.91 mm I.D. × 3.60 m                | 1.06 mm I.D. × 3.60 m               |

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## R134a - LBP Applications

| COMPRESSOR                    | FREQUENCY | DIMENSION                            |                                     |
|-------------------------------|-----------|--------------------------------------|-------------------------------------|
|                               |           | (from -30°C to -15°C<br>evap. temp.) | (from -15°C to -5°C<br>evap. temp.) |
| EMT22H                        | 50 Hz     | 0.61 mm I.D. × 4.0 m                 | 0.61 mm I.D. × 3.5 m                |
| EMT36H                        | 50 Hz     | 0.78 mm I.D. × 4.0 m                 | 0.91 mm I.D. × 4.0 m                |
| EMT43H                        | 50 Hz     | 0.78 mm I.D. × 3.7 m                 | 0.91 mm I.D. × 3.7 m                |
| EMT49H                        | 50 Hz     | 0.78 mm I.D. × 3.5 m                 | 0.91 mm I.D. × 3.5 m                |
| NB2116Z -<br>NB1116Z - EMT60H | 50 Hz     | 0.78 mm I.D. × 3.3 m                 | 0.91 mm I.D. × 3.3 m                |
|                               | 60 Hz     | 0.78 mm I.D. × 2.75 m                | 0.91 mm I.D. × 2.75 m               |
| NB 1118Z -<br>NB 1118Z        | 50 Hz     | 0.91 mm I.D. × 4.0 m                 | 1.06 mm I.D. × 4.0 m                |

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## R 290 - R 404A - R 507 - MBP Applications

| COMPRESSOR                                               | FREQUENCY | DIMENSION                           |                                     |
|----------------------------------------------------------|-----------|-------------------------------------|-------------------------------------|
|                                                          |           | (from -20°C to -5°C<br>evap. temp.) | (from -5°C to +15°C<br>evap. temp.) |
| NB6144GK - NEK6144GK<br>EMT6144U - EMT6144GK             | 50 Hz     | 1.06 mm I.D. × 3.30 m               | 1.06 mm I.D. × 2.80 m               |
|                                                          | 60 Hz     | 1.06 mm I.D. × 2.80 m               | 1.06 mm I.D. × 2.45 m               |
| NB6152GK - NEK6152U<br>EMT6152U - EMT6152GK              | 50 Hz     | 1.06 mm I.D. × 3.10 m               | 1.06 mm I.D. × 2.55 m               |
|                                                          | 60 Hz     | 1.06 mm I.D. × 2.65 m               | 1.06 mm I.D. × 2.15 m               |
| NB5165GK<br>NB6165GK - NEK6165GK<br>EMT6165U - EMT6165GK | 50 Hz     | 1.06 mm I.D. × 2.80 m               | 1.20 mm I.D. × 3.30 m               |
|                                                          | 60 Hz     | 1.06 mm I.D. × 2.45 m               | 1.20 mm I.D. × 2.85 m               |
| NE5181GK - NEK6181U<br>NE6181GK - NEK 6181GK             | 50 Hz     | 1.20 mm I.D. × 3.00 m               | 1.20 mm I.D. × 2.35 m               |
|                                                          | 60 Hz     | 1.20 mm I.D. × 2.60 m               | 1.20 mm I.D. × 2.05 m               |
| NE5195GK<br>NE6195GK                                     | 60 Hz     | 1.20 mm I.D. × 2.80 m               | 1.27 mm I.D. × 2.65 m               |
| NEK 6210U<br>NE6210GK - NEK6210GK                        | 50 Hz     | 1.20 mm I.D. × 2.75 m               | 1.27 mm I.D. × 2.45 m               |
|                                                          | 60 Hz     | 1.20 mm I.D. × 2.35 m               | 1.27 mm I.D. × 2.15 m               |
| NEK6213U - NEK6213GK<br>NE9213GK                         | 50 Hz     | 1.27 mm I.D. × 2.55 m               | 1.27 mm I.D. × 1.80 m               |
|                                                          | 60 Hz     | 1.27 mm I.D. × 2.20 m               | 1.27 mm I.D. × 1.55 m               |
| T6217GK<br>NT6217U - NT6217GK                            | 50 Hz     | 1.27 mm I.D. × 2.15 m               | 1.27 mm I.D. × 1.50 m               |
|                                                          | 60 Hz     | 1.27 mm I.D. × 1.85 m               | 1.37 mm I.D. × 1.60 m               |
| T6220GK                                                  | 50 Hz     | 1.37 mm I.D. × 1.90 m               | 1.37 mm I.D. × 1.50 m               |

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## R22 - MBP/HBP Applications

| COMPRESSOR                             | FREQUENCY | DIMENSION                           |                                     |
|----------------------------------------|-----------|-------------------------------------|-------------------------------------|
|                                        |           | (from -20°C to -5°C<br>evap. temp.) | (from -5°C to +10°C<br>evap. temp.) |
| T6217E                                 | 50 Hz     | 1.27 mm I.D. × 2.3 m                | 1.27 mm I.D. × 1.6 m                |
| T6220E                                 | 50 Hz     | 1.37 mm I.D. × 2.0 m                | 1.37 mm I.D. × 1.6 m                |
| NJ9226E - NJ9226P - NJ7225F            | 50 Hz     | 1.63 mm I.D. × 2.9 m                | 1.63 mm I.D. × 1.7 m                |
|                                        | 60 Hz     | 1.63 mm I.D. × 2.5 m                | 1.90 mm I.D. × 1.9 m                |
| NJ7228F - NJ7228P - NJ7228E            | 50 Hz     | 1.63 mm I.D. × 2.4 m                | 1.90 mm I.D. × 1.9 m                |
|                                        | 60 Hz     | 1.90 mm I.D. × 2.5 m                | 2.16 mm I.D. × 2.0 m                |
| NJ9232E - NJ9232P - NJ7231F<br>NJ7231P | 50 Hz     | 1.90 mm I.D. × 2.8 m                | 2.16 mm I.D. × 2.2 m                |
|                                        | 60 Hz     | 1.90 mm I.D. × 2.15 m               | 2.16 mm I.D. × 1.7 m                |
| NJ9238E - NJ9238P<br>NJ7238E - NJ7238P | 50 Hz     | 2.16 mm I.D. × 2.6 m                | 2 × 1.63 mm I.D. × 1.8 m            |
|                                        | 60 Hz     | 2.16 mm I.D. × 2.0 m                | 2 × 2.16 mm I.D. × 2.5 m            |
| NJ7240E - NJ7240D                      | 50 Hz     | 2.16 mm I.D. × 2.3 m                | 2 × 2.16 mm I.D. × 2.8 m            |

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## R134a - HBP Applications

| COMPRESSOR         | FREQUENCY | DIMENSION                           |                                     |
|--------------------|-----------|-------------------------------------|-------------------------------------|
|                    |           | (from -15°C to -5°C<br>evap. temp.) | (from -5°C to +10°C<br>evap. temp.) |
| T6213Z             | 50 Hz     | 1.37 mm I.D. × 3.5 m                | 1.50 mm I.D. × 3.3 m                |
|                    | 60 Hz     | 1.37 mm I.D. × 3.1 m                | 1.50 mm I.D. × 2.9 m                |
| T6215Z - T6217Z    | 50 Hz     | 1.37 mm I.D. × 3.1 m                | 1.50 mm I.D. × 2.9 m                |
|                    | 60 Hz     | 1.37 mm I.D. × 2.7 m                | 1.50 mm I.D. × 2.5 m                |
| NJ6220Z - NJ6220ZX | 50 Hz     | 1.63 mm I.D. × 3.6 m                | 1.78 mm I.D. × 3.3 m                |
|                    | 60 Hz     | 1.63 mm I.D. × 3.0 m                | 1.78 mm I.D. × 2.75 m               |
| NJ6226Z - NJ6226ZX | 50 Hz     | 2 × 1.50 mm I.D. × 4.0 m            | 2 × 1.63 mm I.D. × 3.0 m            |
|                    | 60 Hz     | 2 × 1.50 mm I.D. × 3.4 m            | 2 × 1.63 mm I.D. × 2.5 m            |

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## R 22 - Air Conditioning Applications

| COMPRESSOR                  | FREQUENCY | DIMENSION                  |   |
|-----------------------------|-----------|----------------------------|---|
| NE7213E                     | 50 Hz     | 1.24 mm I.D. × 1.05 m      | – |
|                             | 60 Hz     | 1.24 mm I.D. × 1.0 m       | – |
| NE7215E                     | 50 Hz     | 1.24 mm I.D. × 1.0 m       | – |
|                             | 60 Hz     | 1.24 mm I.D. × 0.95 m      | – |
| T7220E - T7220F             | 50 Hz     | 1.37 mm I.D. × 1.0 m       | – |
|                             | 60 Hz     | 1.37 mm I.D. × 0.95 m      | – |
| T7223E - T7223F             | 50 Hz     | 1.5 mm I.D. × 1.05 m       | – |
|                             | 60 Hz     | 1.5 mm I.D. × 1.0 m        | – |
| NJ7225E - NJ7225F           | 50 Hz     | 2.16 mm I.D. × 2.0 m       | – |
|                             | 60 Hz     | 2.16 mm I.D. × 1.8 m       | – |
| NJ7228E - NJ7228F           | 50 Hz     | 2.16 mm I.D. × 1.9 m       | – |
|                             | 60 Hz     | 2.16 mm I.D. × 1.7 m       | – |
| NJ7231E - NJ7231F - NJ7231P | 50 Hz     | 2.16 mm I.D. × 1.6 m       | – |
|                             | 60 Hz     | 2.16 mm I.D. × 1.4 m       | – |
| NJ7238E - NJ7238P           | 50 Hz     | 2 × 2.16 mm I.D. × 2.5 m   | – |
|                             | 60 Hz     | 2 × 2.16 mm I.D. × 2.3 m   | – |
|                             | 50 Hz     | 2 × 2.16 mm × I.D. × 2.3 m | – |

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## R134a - HBP Applications

| COMPRESSOR                                           | FREQUENCY | DIMENSION                           |                                     |
|------------------------------------------------------|-----------|-------------------------------------|-------------------------------------|
|                                                      |           | (from –15°C to –5°C<br>evap. temp.) | (from –5°C to +10°C<br>evap. temp.) |
| NB5125Z                                              | 50 Hz     | 0.78 mm I.D. × 2.5 m                | 0.91 mm I.D. × 2.4 m                |
|                                                      | 60 Hz     | 0.78 mm I.D. × 2.1 m                | 0.91 mm I.D. × 2.0 m                |
| NB5128Z                                              | 50 Hz     | 0.78 mm I.D. × 2.4 m                | 0.91 mm I.D. × 2.3 m                |
|                                                      | 60 Hz     | 0.78 mm I.D. × 2.0 m                | 0.91 mm I.D. × 1.9 m                |
| NB5132Z - NB6132Z                                    | 50 Hz     | 0.78 mm I.D. × 2.3 m                | 0.91 mm I.D. × 2.2 m                |
|                                                      | 60 Hz     | 0.78 mm I.D. × 1.9 m                | 0.91 mm I.D. × 1.8 m                |
| NB5144Z - NB6144Z<br>NEK5144Z - EMT6144Z             | 50 Hz     | 0.91 mm I.D. × 2.9 m                | 1.06 mm I.D. × 2.7 m                |
|                                                      | 60 Hz     | 0.91 mm I.D. × 2.4 m                | 1.06 mm I.D. × 2.3 m                |
| NE5160Z - NE6160Z<br>NEK6160Z - EMT6160Z             | 50 Hz     | 0.91 mm I.D. × 2.4 m                | 1.06 mm I.D. × 2.5 m                |
|                                                      | 60 Hz     | 0.91 mm I.D. × 2.1 m                | 1.06 mm I.D. × 2.2 m                |
| NE5170Z - NE6170Z<br>NEK5170Z - NEK6170Z<br>EMT6170Z | 50 Hz     | 1.06 mm I.D. × 3.2 m                | 1.27 mm I.D. × 3.3 m                |
|                                                      | 60 Hz     | 1.06 mm I.D. × 2.65 m               | 1.27 mm I.D. × 2.75 m               |
| NE5187Z - NE6187Z<br>NEK6187Z                        | 50 Hz     | 1.24 mm I.D. × 4.0 m                | 1.37 mm I.D. × 3.3 m                |
|                                                      | 60 Hz     | 1.24 mm I.D. × 3.4 m                | 1.37 mm I.D. × 2.9 m                |
| NE6210Z - NEK6210Z                                   | 60 Hz     | 1.37 mm I.D. × 3.5 m                | 1.50 mm I.D. × 3.3 m                |
| NEK6212Z                                             | 60 Hz     | 1.37 mm I.D. × 3.3 m                | 1.50 mm I.D. × 3.1 m                |
|                                                      | 50 Hz     | 1.37 mm I.D. × 3.5 m                | 1.50 mm I.D. × 3.3 m                |

PictureS Mbsm Dot Pro : [www.mbsm.pro](http://www.mbsm.pro)

## R22 - MBP/HBP Applications

| COMPRESSOR        | FREQUENCY | DIMENSION                           |                                     |
|-------------------|-----------|-------------------------------------|-------------------------------------|
|                   |           | (from -20°C to -5°C<br>evap. temp.) | (from -5°C to +10°C<br>evap. temp.) |
| NB6144E           | 50 Hz     | 1.06 mm I.D. × 3.5 m                | 1.06 mm I.D. × 3.0 m                |
|                   | 60 Hz     | 1.06 mm I.D. × 3.0 m                | 1.06 mm I.D. × 2.6 m                |
| NB6152E           | 50 Hz     | 1.06 mm I.D. × 3.3 m                | 1.06 mm I.D. × 2.7 m                |
|                   | 60 Hz     | 1.06 mm I.D. × 2.8 m                | 1.06 mm I.D. × 2.3 m                |
| NB5165E - NB6152E | 50 Hz     | 1.06 mm I.D. × 3.0 m                | 1.20 mm I.D. × 3.5 m                |
|                   | 60 Hz     | 1.06 mm I.D. × 2.6 m                | 1.20 mm I.D. × 3.0 m                |
| NE5181E - NE6181E | 50 Hz     | 1.20 mm I.D. × 3.2 m                | 1.20 mm I.D. × 2.5 m                |
|                   | 60 Hz     | 1.20 mm I.D. × 2.75 m               | 1.20 mm I.D. × 2.2 m                |
| NE5195E - NE6195E | 60 Hz     | 1.20 mm I.D. × 3.0 m                | 1.27 mm I.D. × 2.8 m                |
| NE5195E - NE6210E | 50 Hz     | 1.20 mm I.D. × 2.9 m                | 1.27 mm I.D. × 2.6 m                |
|                   | 60 Hz     | 1.20 mm I.D. × 2.5 m                | 1.27 mm I.D. × 2.3 m                |
| NE6212E - NE7212E | 50 Hz     | 1.27 mm I.D. × 2.7 m                | 1.27 mm I.D. × 1.9 m                |

PictureS Mbsm Dot Pro : [www.mbsm.pro](http://www.mbsm.pro)

## R22 - LBP Applications

| COMPRESSOR | FREQUENCY | DIMENSION                           |   |
|------------|-----------|-------------------------------------|---|
|            |           | (from -30°C to -5°C<br>evap. temp.) | - |
| NE2125E    | 50 Hz     | 0.91 mm I.D. × 3.2 m                | - |
|            | 60 Hz     | 0.91 mm I.D. × 2.85 m               | - |
| NE2134E    | 50 Hz     | 0.91 mm I.D. × 2.8 m                | - |
|            | 60 Hz     | 0.91 mm I.D. × 2.5 m                | - |
| T2140E     | 50 Hz     | 0.91 mm I.D. × 2.6 m                | - |
|            | 60 Hz     | 0.91 mm I.D. × 2.3 m                | - |
| T2155E     | 50 Hz     | 1.20 mm I.D. × 3.9 m                | - |
|            | 60 Hz     | 1.20 mm I.D. × 3.5 m                | - |
| T2168E     | 50 Hz     | 1.20 mm I.D. × 3.3 m                | - |
|            | 60 Hz     | 1.20 mm I.D. × 2.8 m                | - |
| NJ2178E    | 50 Hz     | 1.20 mm I.D. × 3.0 m                | - |

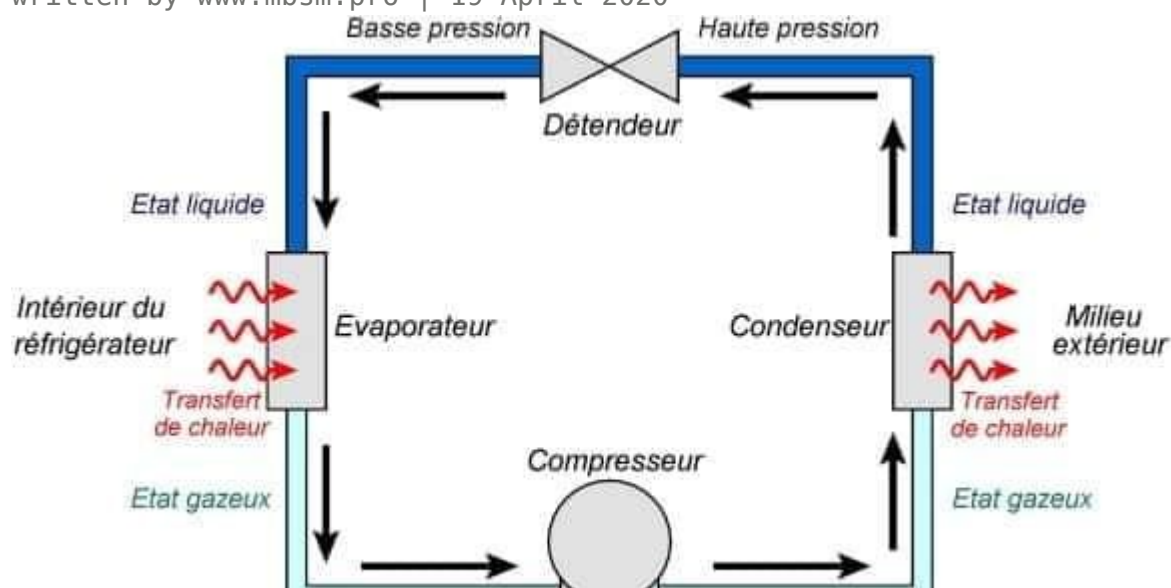
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Choice Of Capillary , EMBARACO ASPERA  
إختيار الكابيلاري لشركة EMBARACO ASPERA

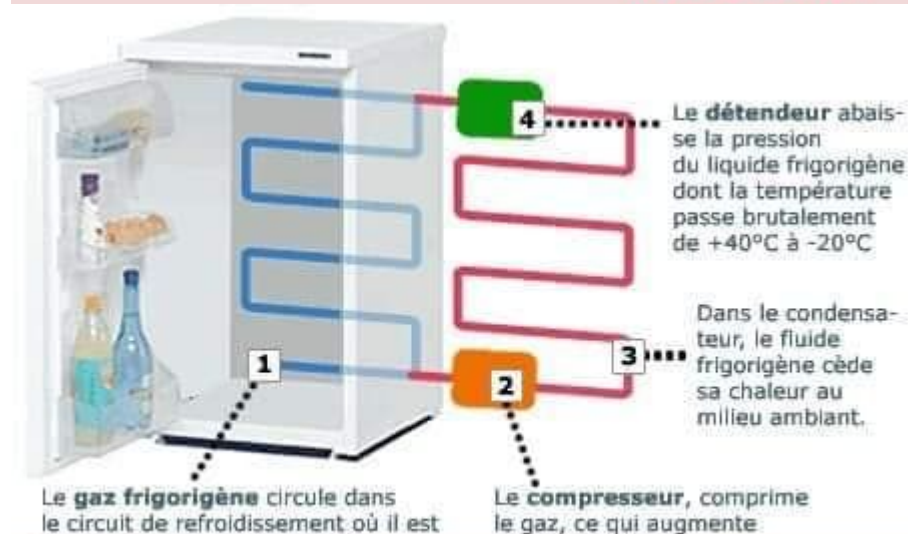
# RÉFRIGÉRATEUR : Comment ça marche ?

Category: Technologie

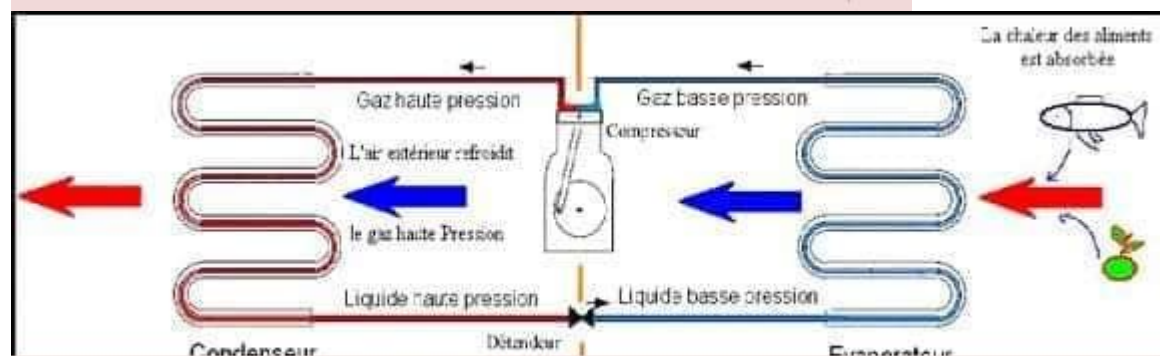
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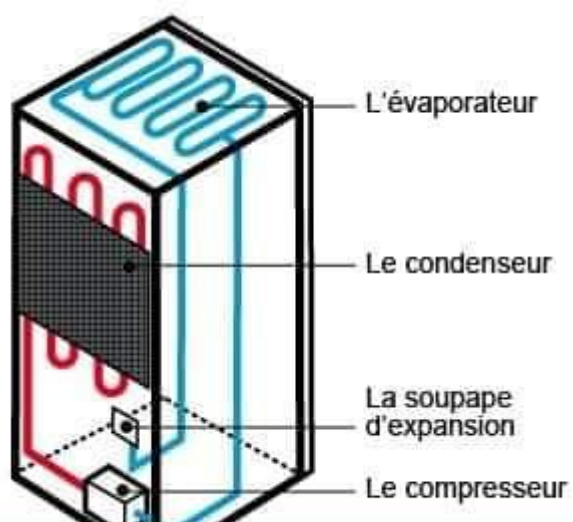
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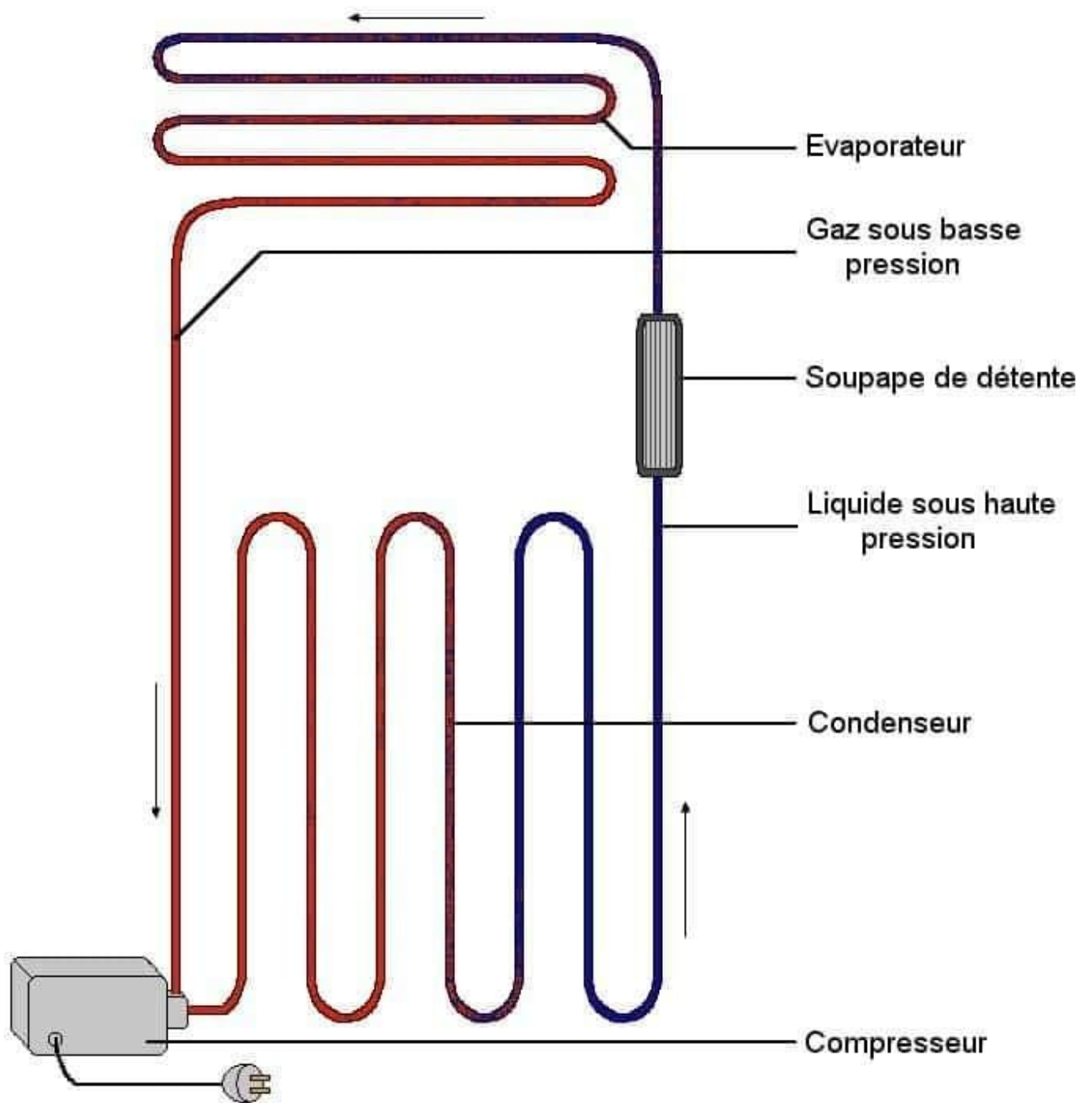


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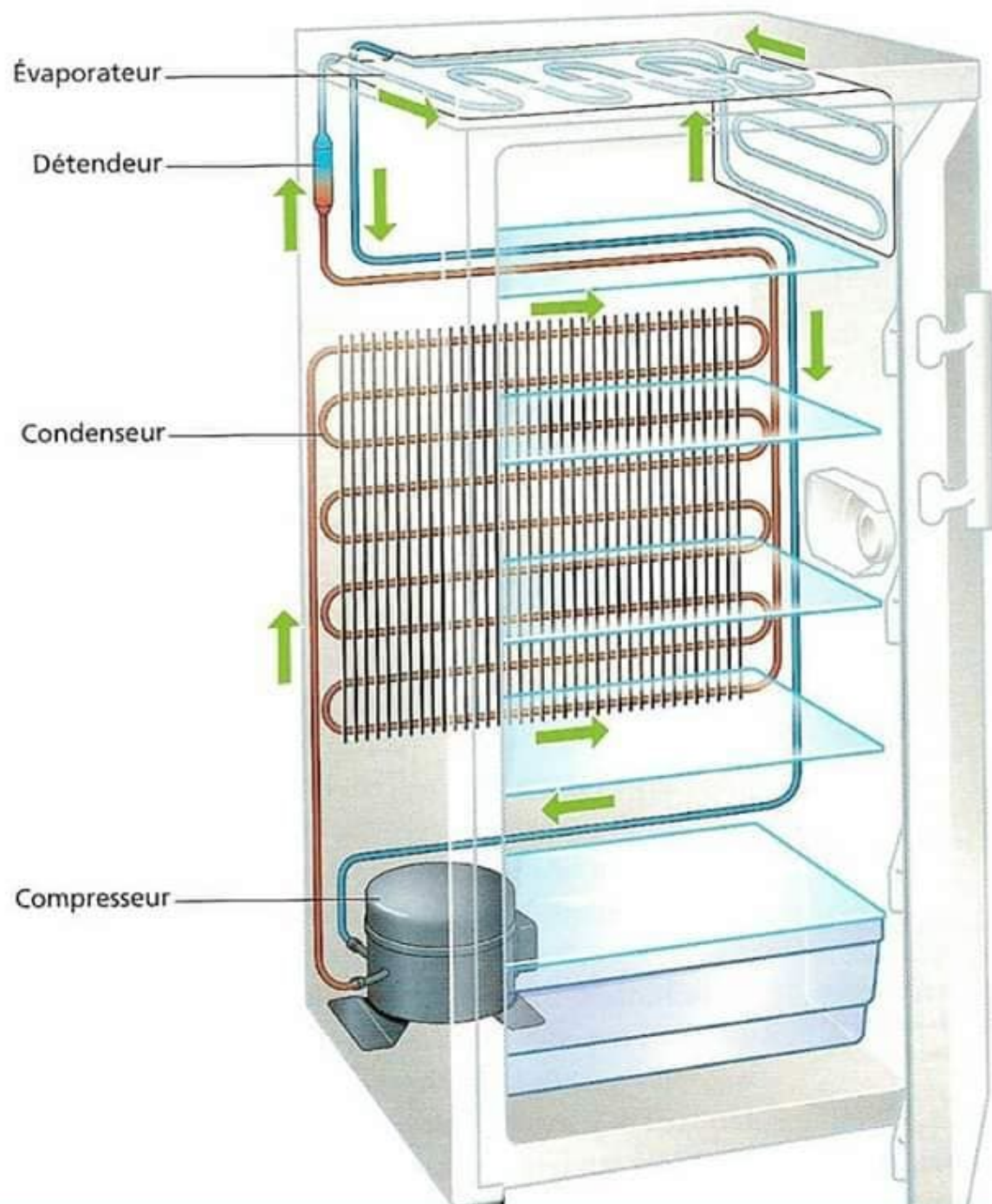


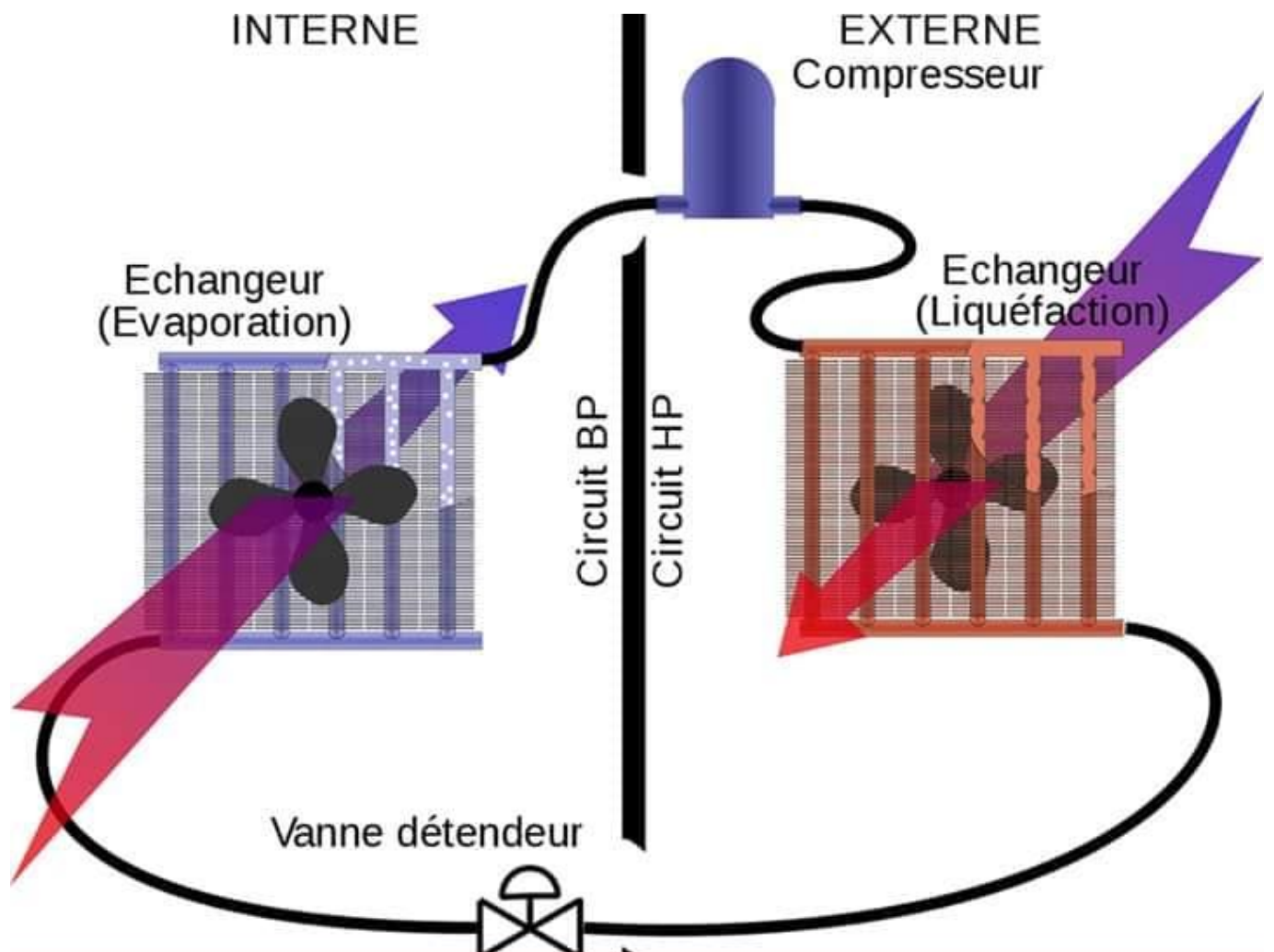
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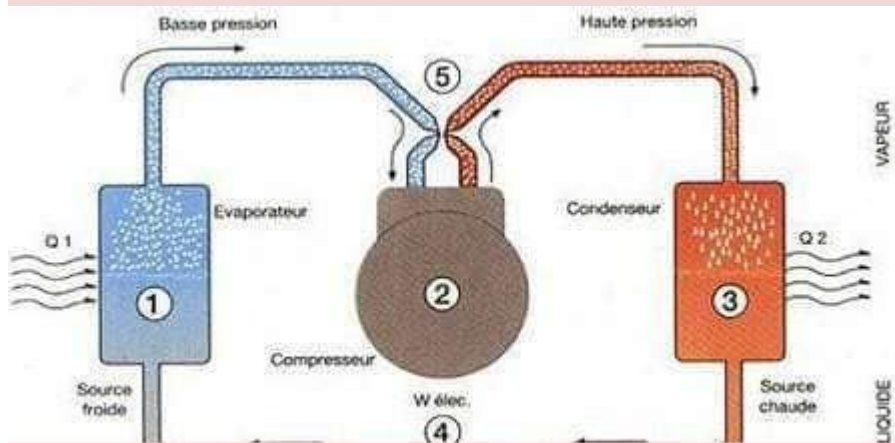


Réfrigérateur à compression





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RÉFRIGÉRATEUR : Comment ça marche ?

1) Définition

Nous savons tous ce que c'est qu'un

réfrigérateur. Il s'agit d'une machine thermique et électrique dotée d'une chambre froide et qui permet de refroidir ou conserver des aliments ou autres produits. Il existe principalement deux (2) types de réfrigérateurs à savoir les réfrigérateurs à compression et les réfrigérateurs à absorption. Nous nous contenterons d'étudier les réfrigérateurs à compression qui sont les plus rencontrés et les plus utilisés. De quoi sont donc constitué ces réfrigérateurs ?

## 2) Composants principaux

Un réfrigérateur à compression est composé de cinq (5) éléments essentiels et indispensables pour son fonctionnement :

\_ l'évaporateur : c'est un tuyau fin disposé en serpentin dans la chambre froide du réfrigérateur.

\_ le compresseur : c'est le moteur du réfrigérateur. Il est situé à l'extérieur et à l'arrière du réfrigérateur.

\_ le condenseur : c'est un tuyau disposé en serpentin et situé à l'extérieur et à l'arrière du réfrigérateur.

\_ le détendeur ou soupape d'expansion : c'est un dispositif de détente situé à l'intérieur du réfrigérateur.

\_ le fluide frigorigène ou réfrigérant : c'est le fluide qui doit circuler dans le circuit fermé constitué par ces quatre autres éléments

cités ci-dessus.

Comment fonctionnent alors tous ces éléments pour produire du froid ?

### 3) Principe de fonctionnement

Le principe de fonctionnement d'un réfrigérateur à compression repose un cycle thermique réparti en quatre phases :

\_ L'Évaporation : au départ, le fluide frigorigène est à l'état liquide et à très basse température. Il absorbe de ce fait la chaleur contenu dans l'enceinte à refroidir et se vaporise pour ensuite passer dans le compresseur.

\_ La Compression : le gaz issu de l'évaporation du fluide arrive dans le compresseur où il est vite comprimé et passe ensuite dans le condenseur.

\_ La Condensation : le fluide étant à l'état gazeux et sous pression (causant ainsi l'augmentation de sa température) cède sa chaleur au milieu extérieur ou ambiant par simple convection et redevient de ce fait liquide à basse température. Le fluide liquide toujours sous pression arrive dans le détendeur.

\_ La Détente : le fluide à l'état liquide et sous pression arrive dans le détendeur où sa pression est vite abaissée. Le fluide remonte dans l'évaporateur pour un nouveau cycle thermique.

C'est la succession de ce cycle thermique qui permet d'obtenir au fur et mesure du froid dans un réfrigérateur à compression.

En résumé, le rôle des principaux éléments constitutifs d'un réfrigérateur est d'extraire la chaleur contenue dans celui-ci pour ensuite la restituer au milieu extérieur ambiant. C'est donc ce cycle qui est à l'origine de la présence du froid dans les réfrigérateurs.

NB :

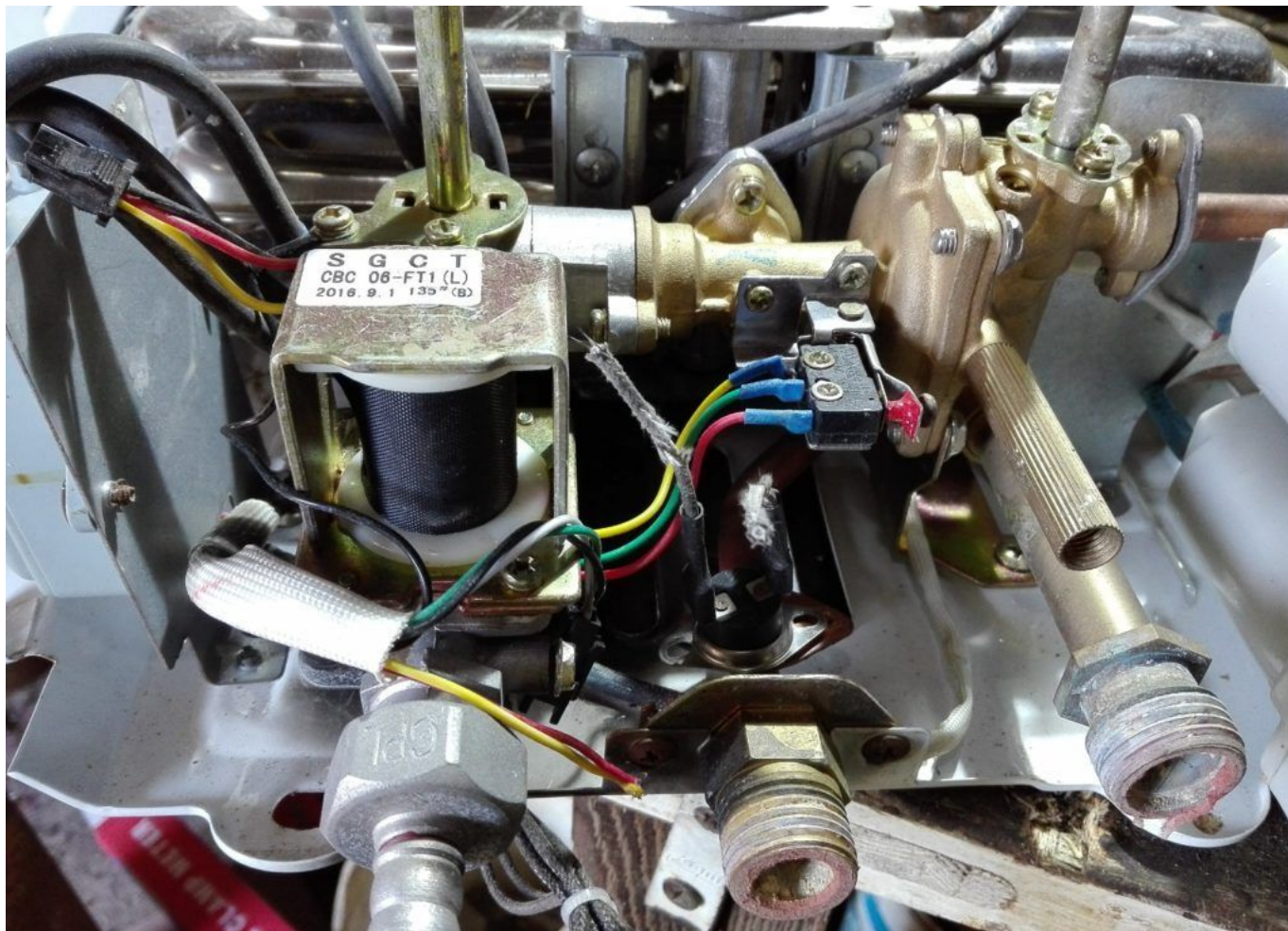
\_ le fluide frigorigène est un produit chimique spécifique sélectionné principalement pour sa grande propriété d'absorption de chaleur ou de changement d'état.

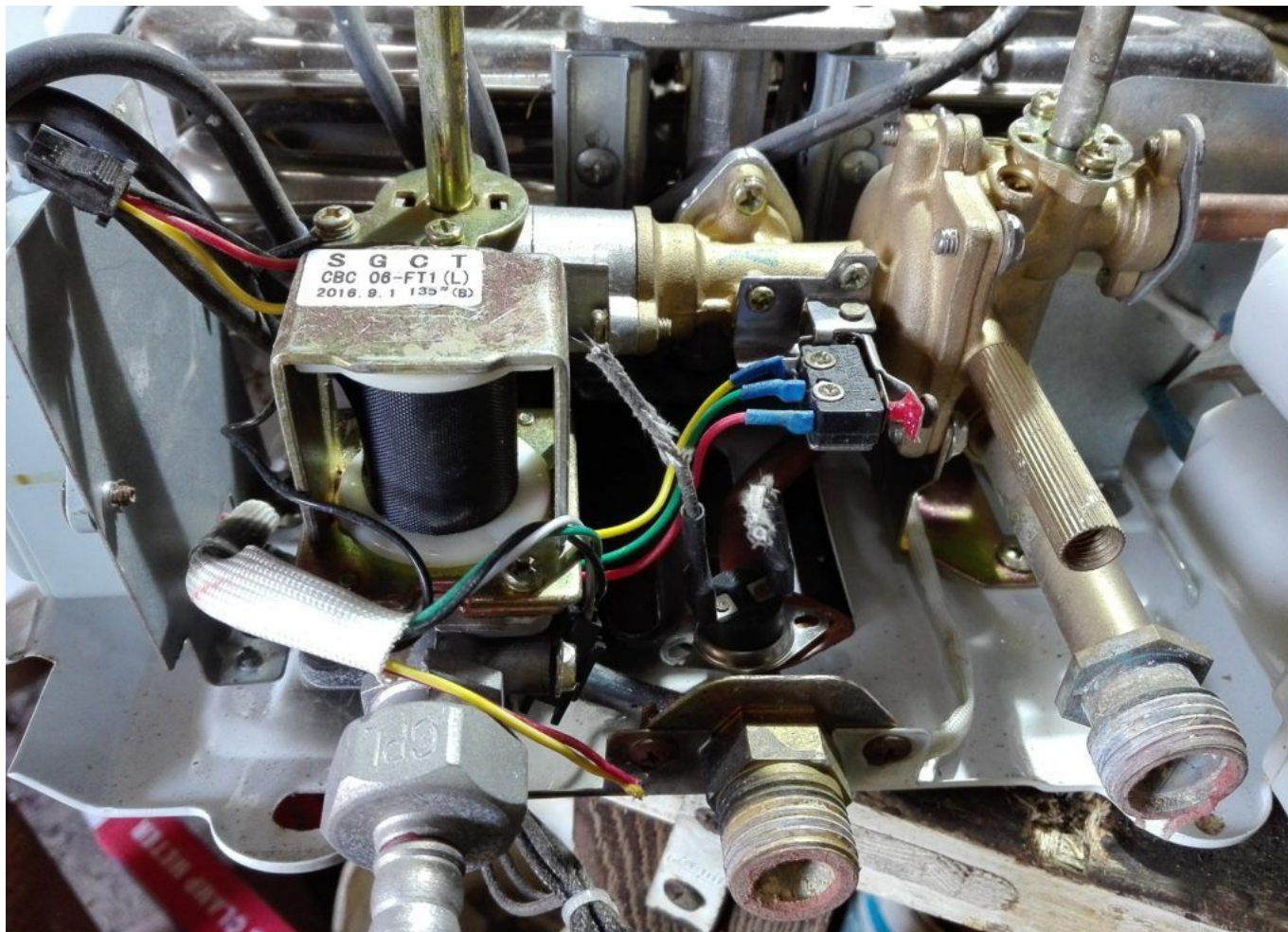
\_ le rôle de l'électricité ici est d'alimenter le compresseur, les petits voyants lumineux, l'indicateur de température et l'éclairage interne du réfrigérateur.

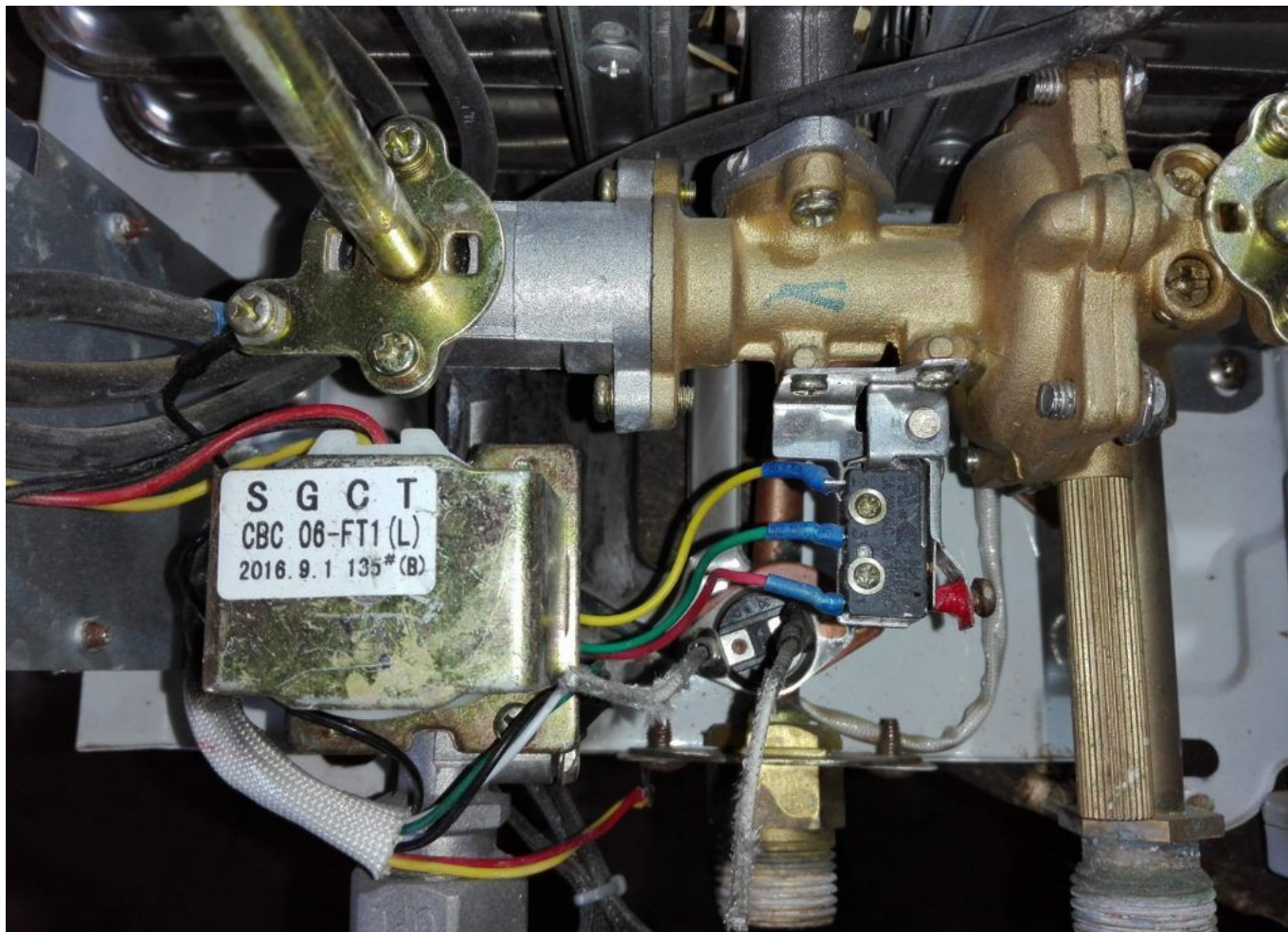
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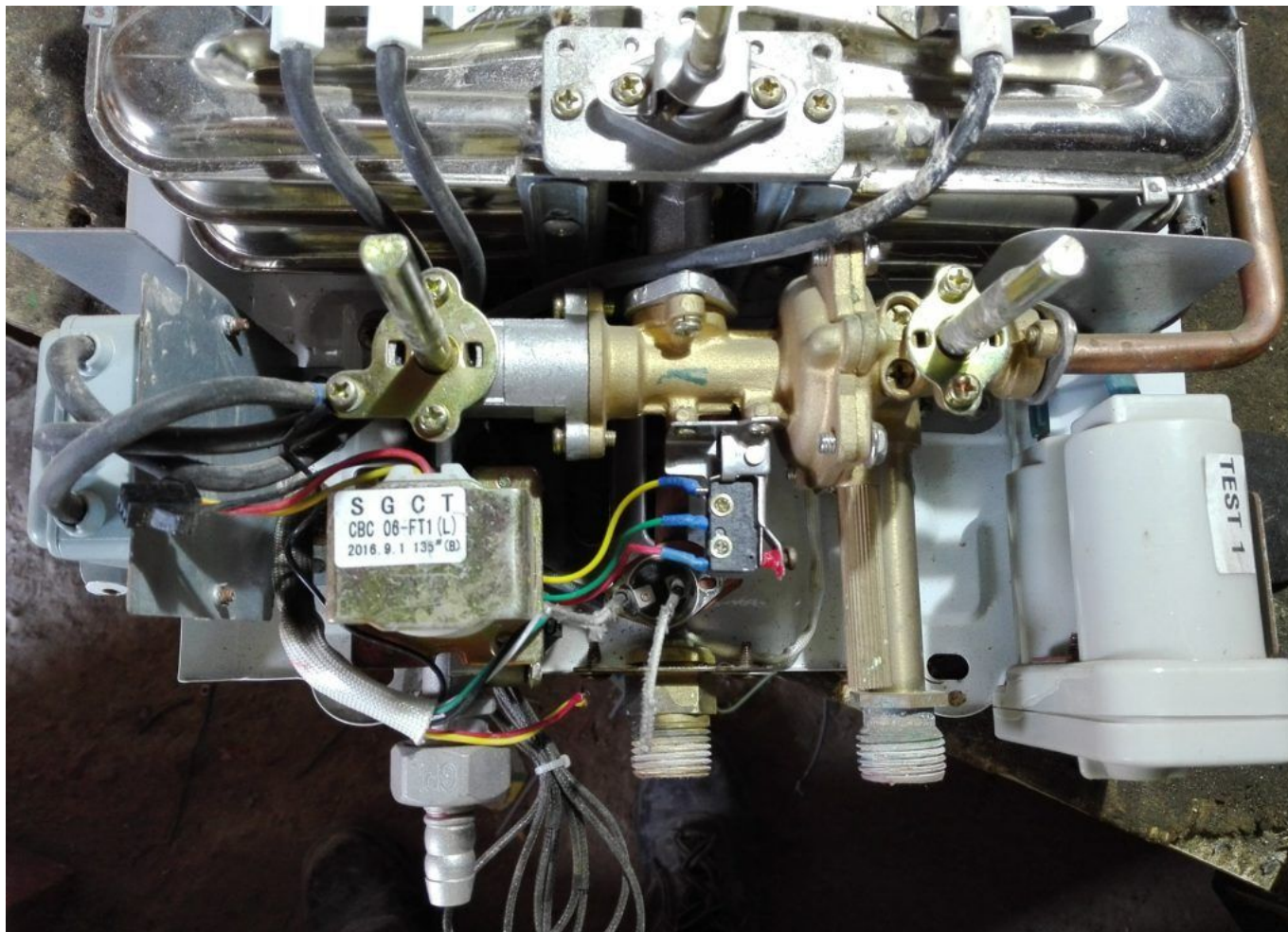
## Changement injecteur gaz , M5 chauffe-eau Electronique 10l

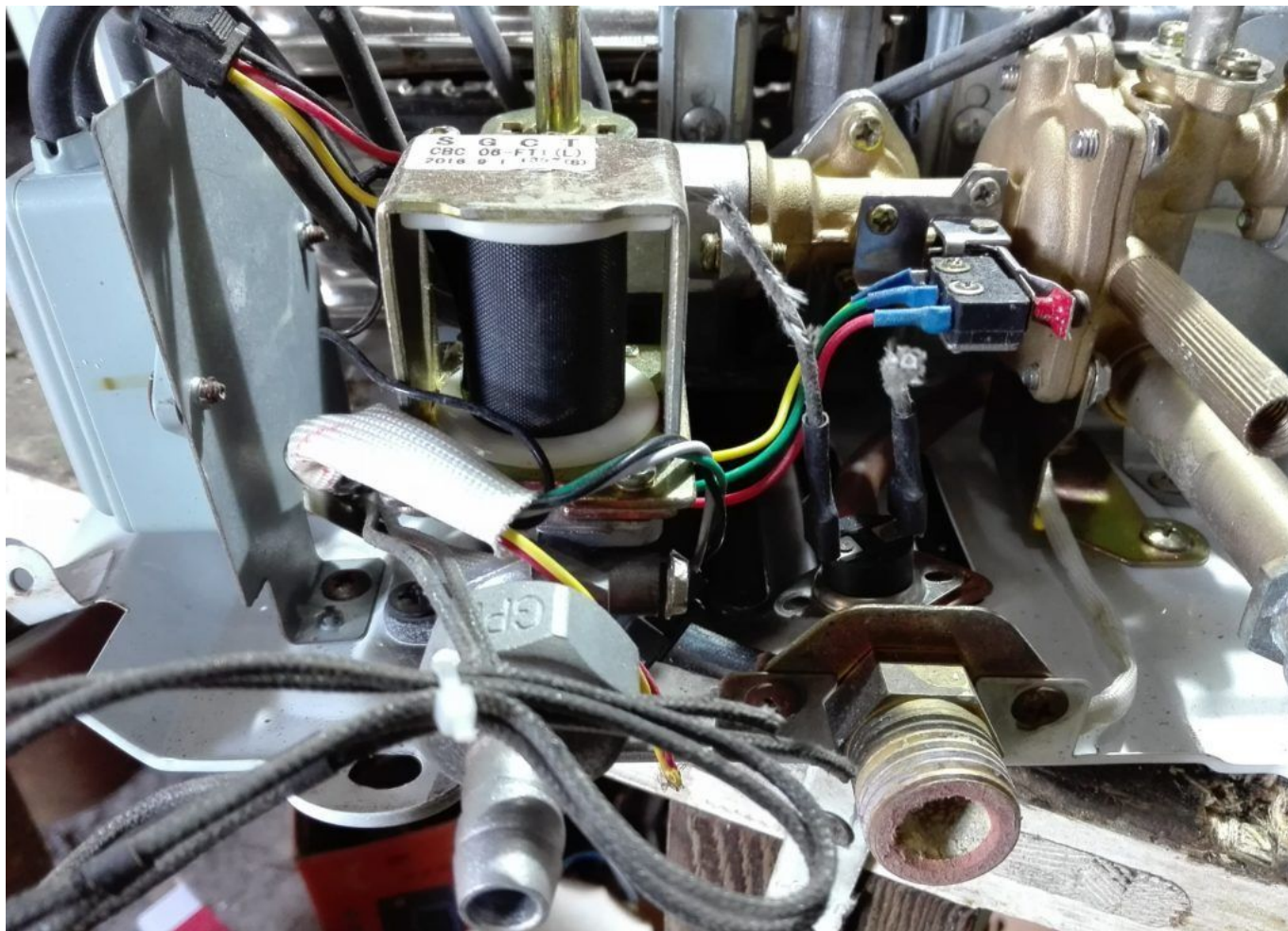
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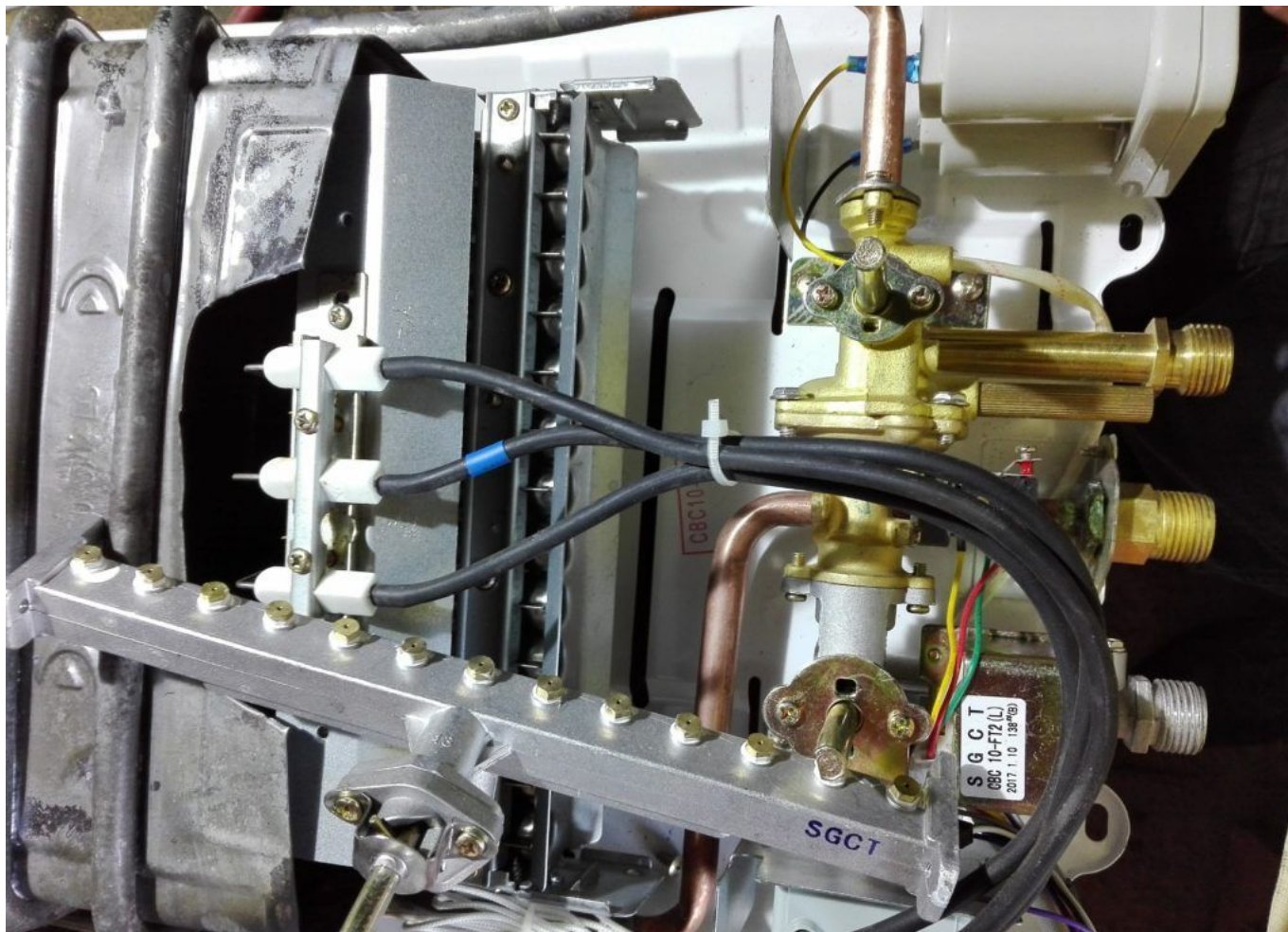


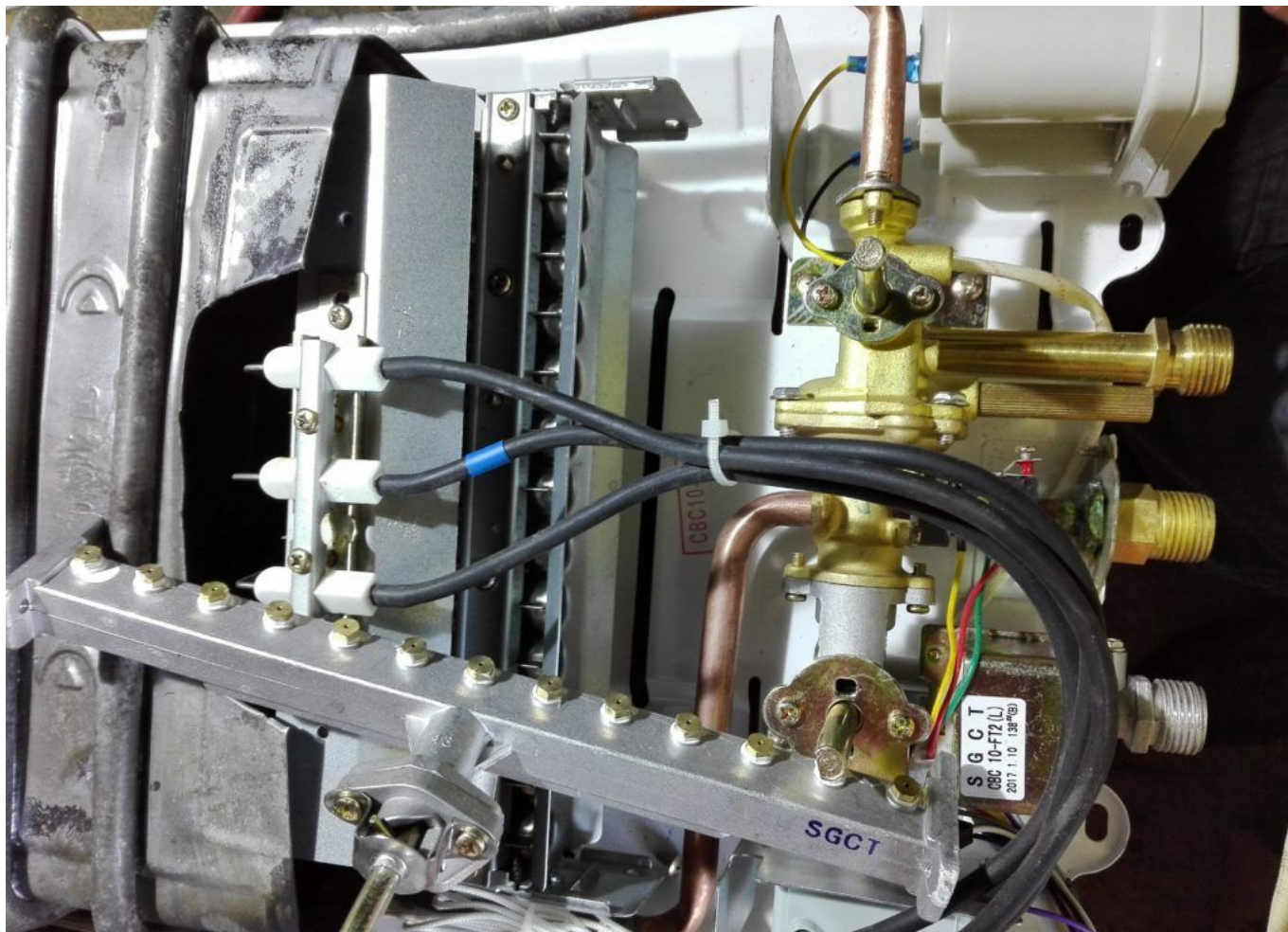


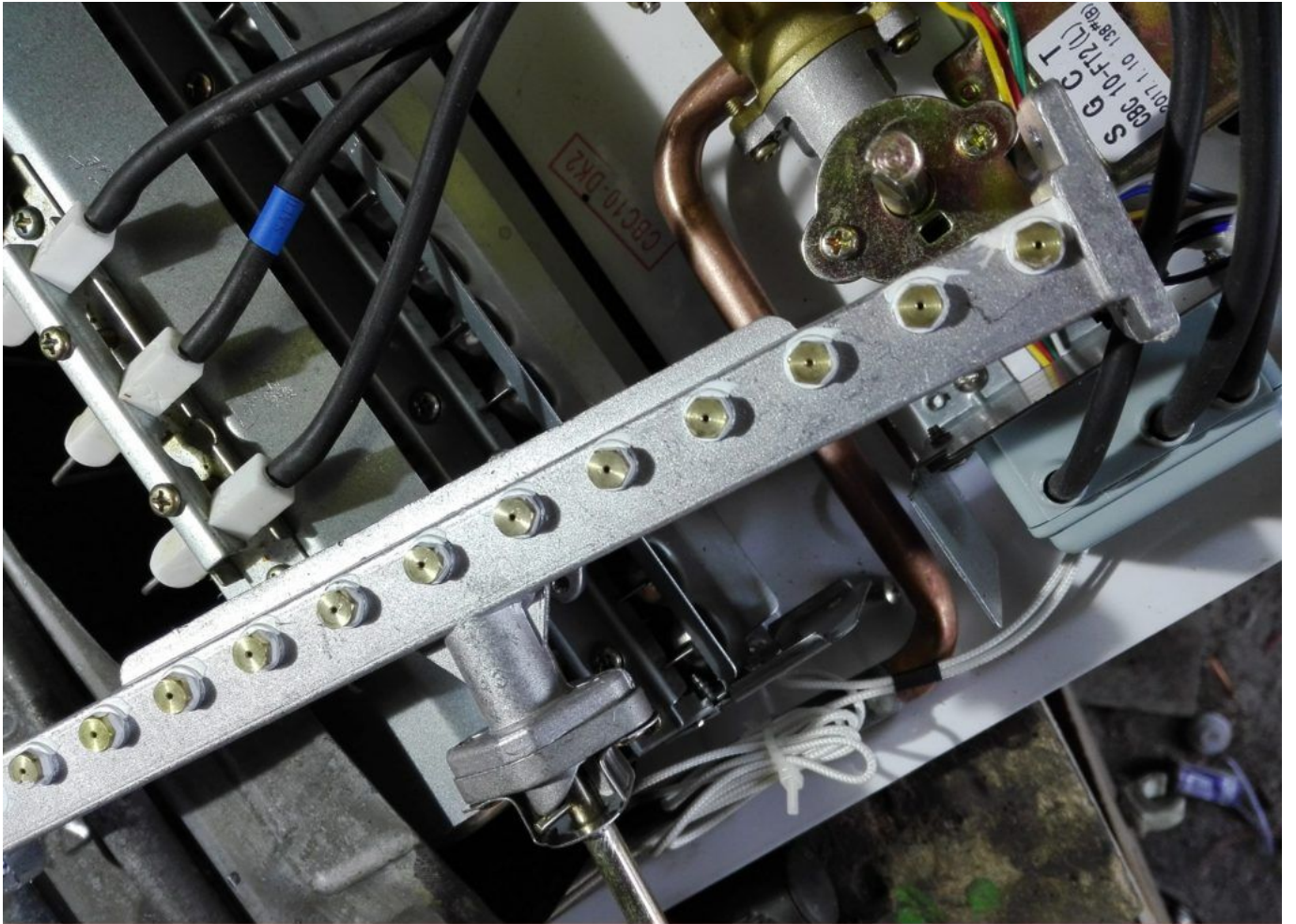


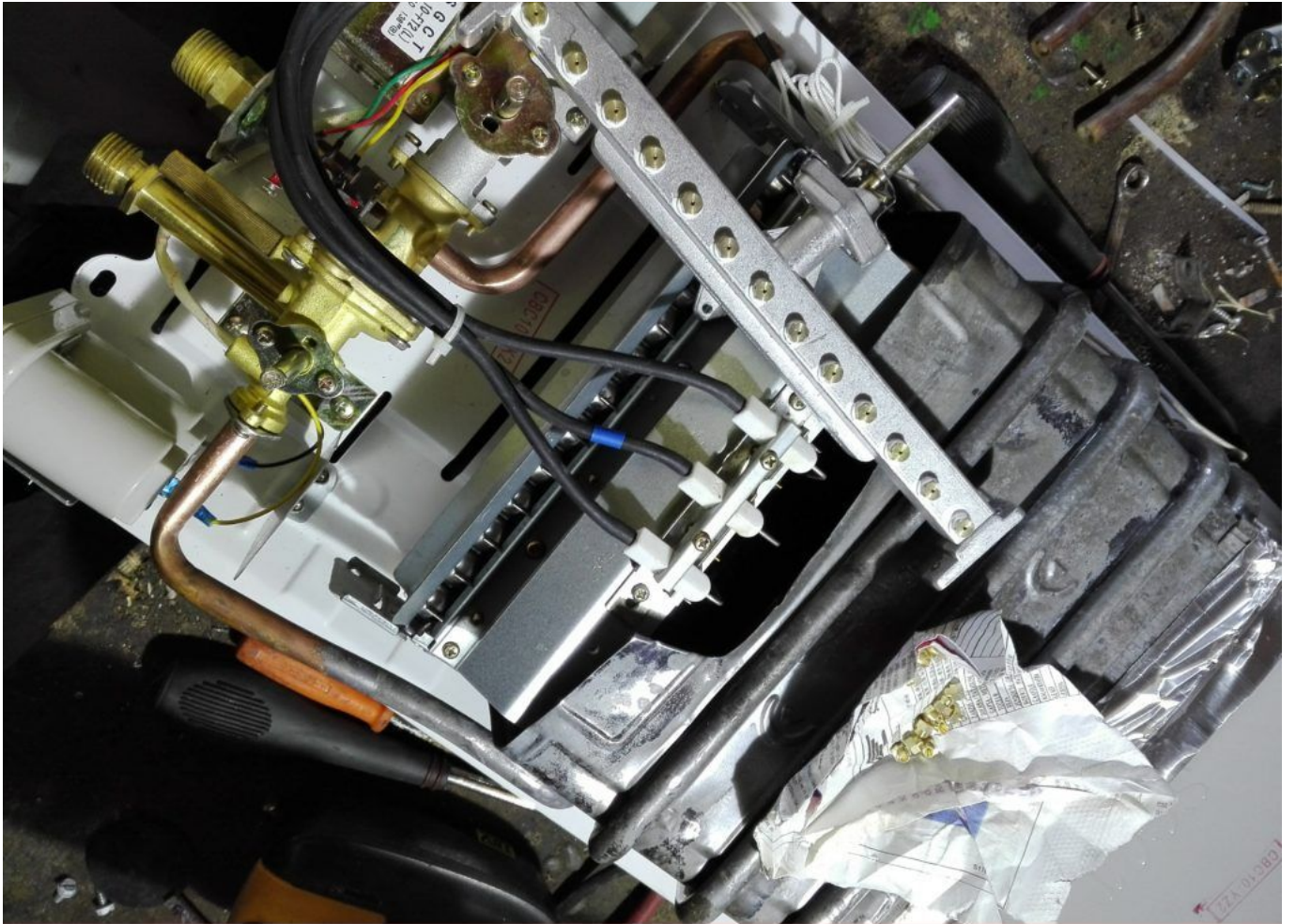


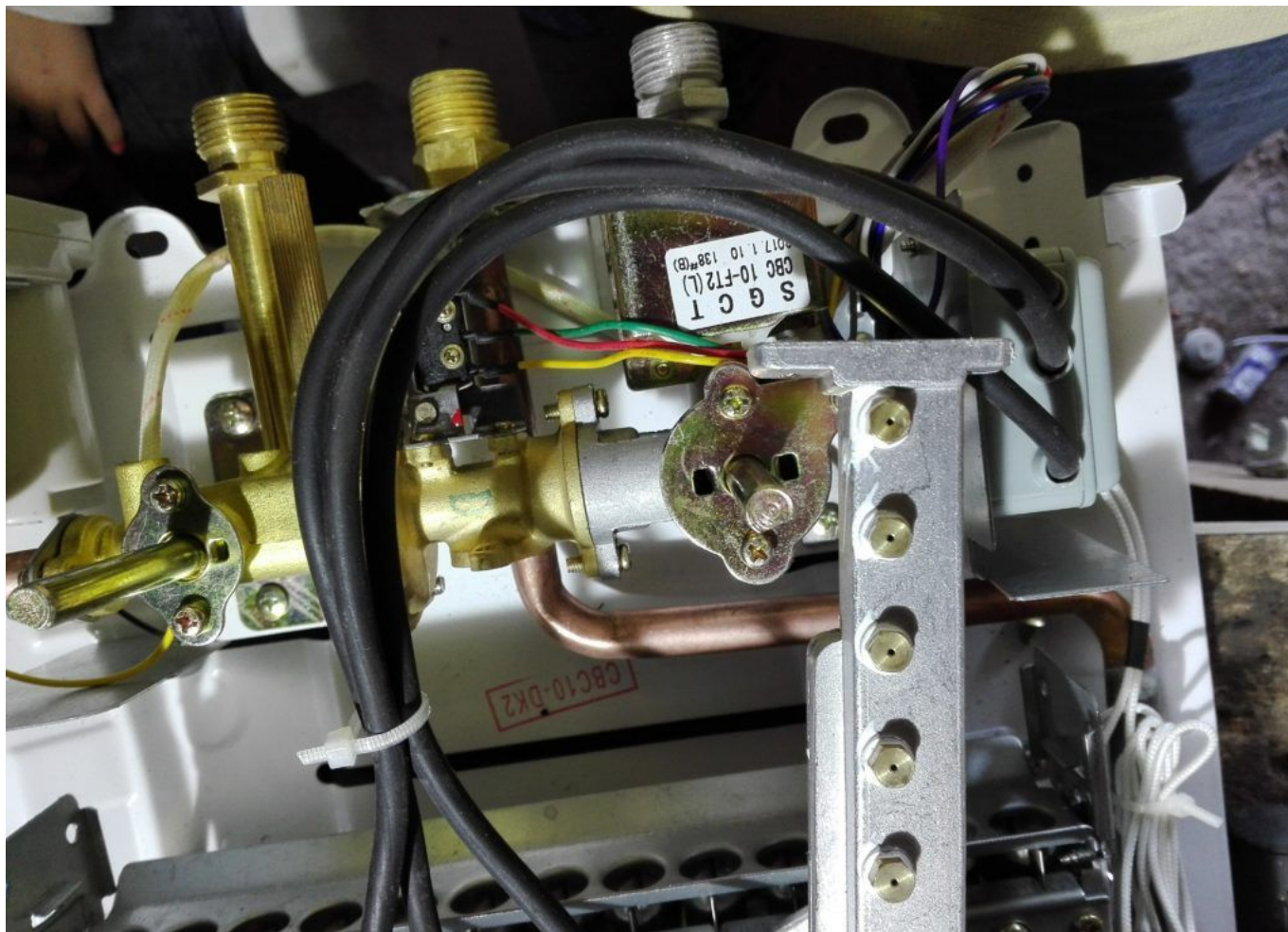




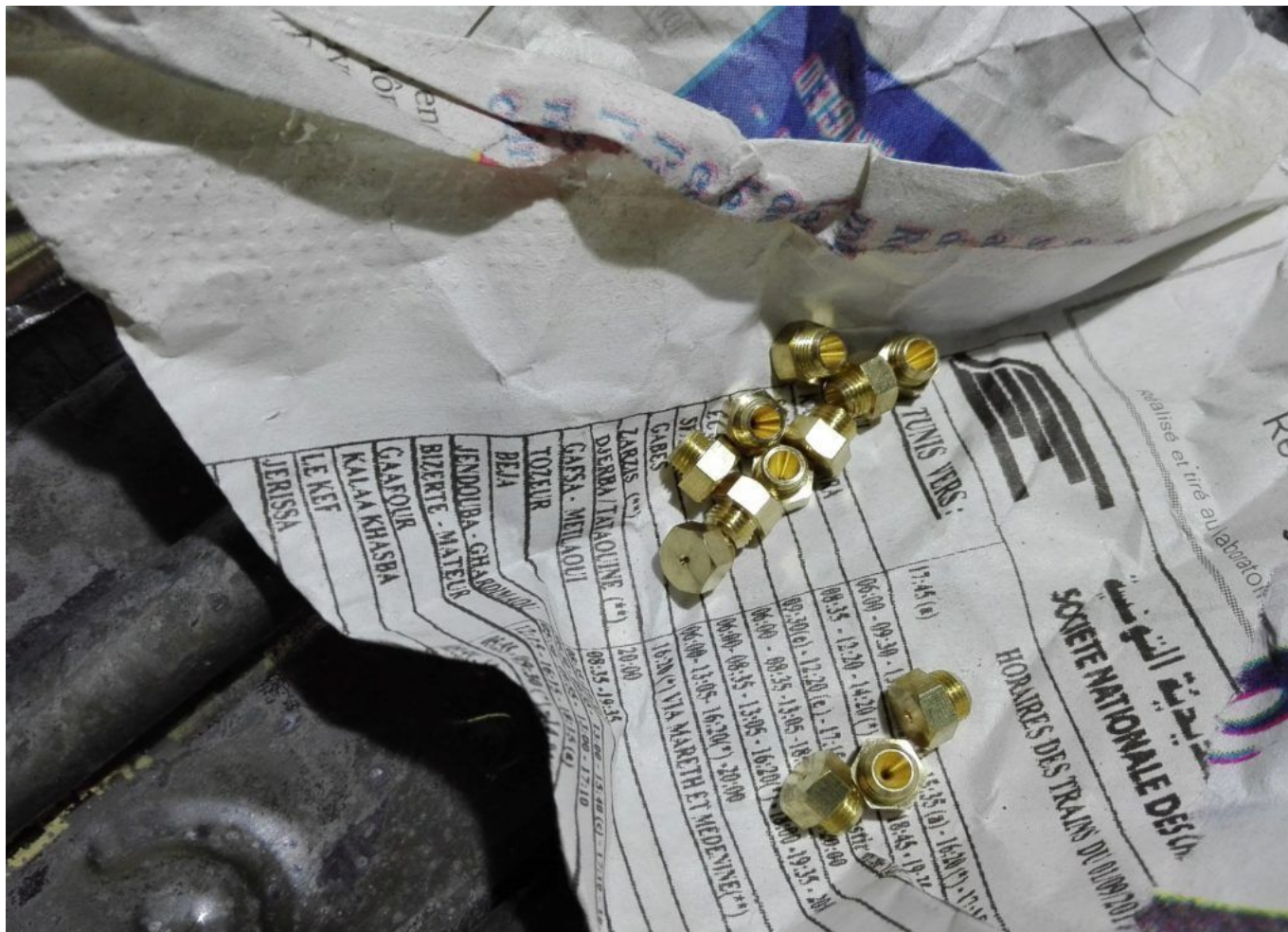


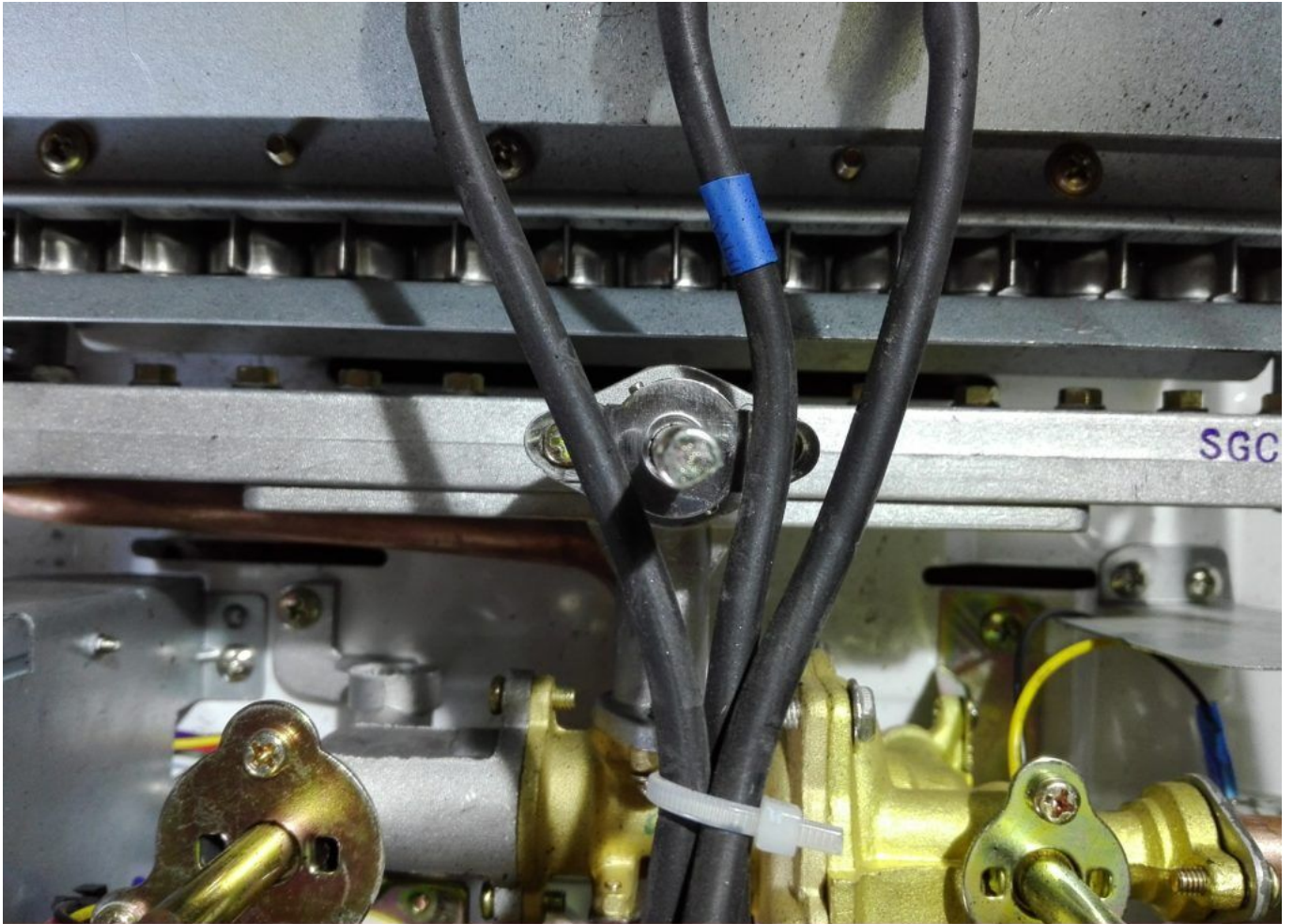


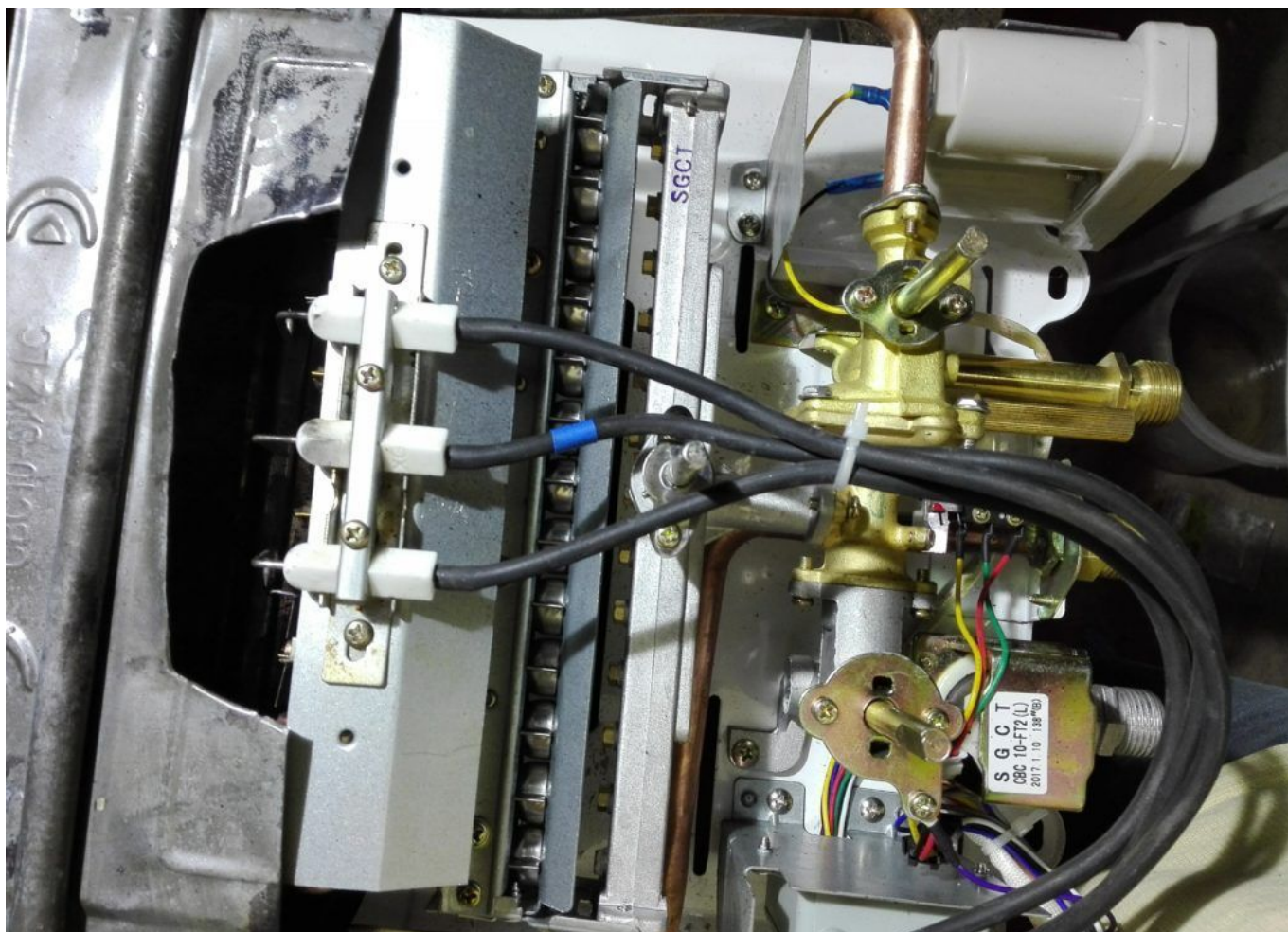












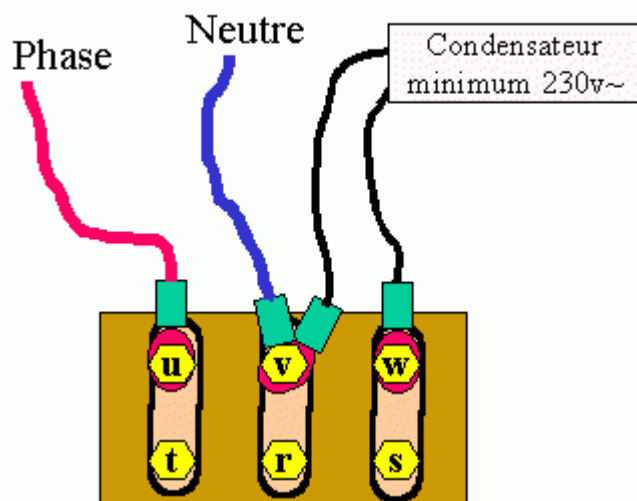
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Changement injecteur gaz , M5 chauffe-eau Electronique 10l

## Branchement Triangle 220v AC

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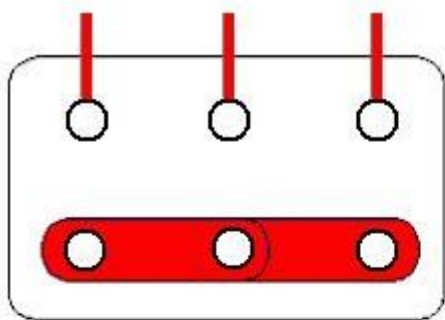
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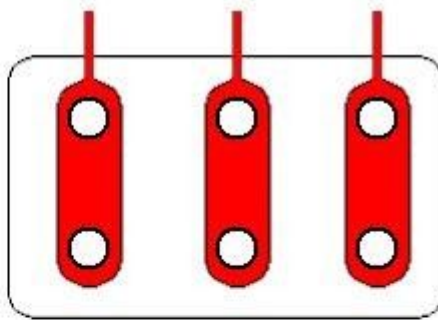
Branchement triangle (220v tri~)

PictureS Mbsm Dot Pro : [www.mbsm.pro](http://www.mbsm.pro)

Branchement Triangle 220v AC



**Etoile**



**Triangle**



**3 barrettes = Triangle**

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