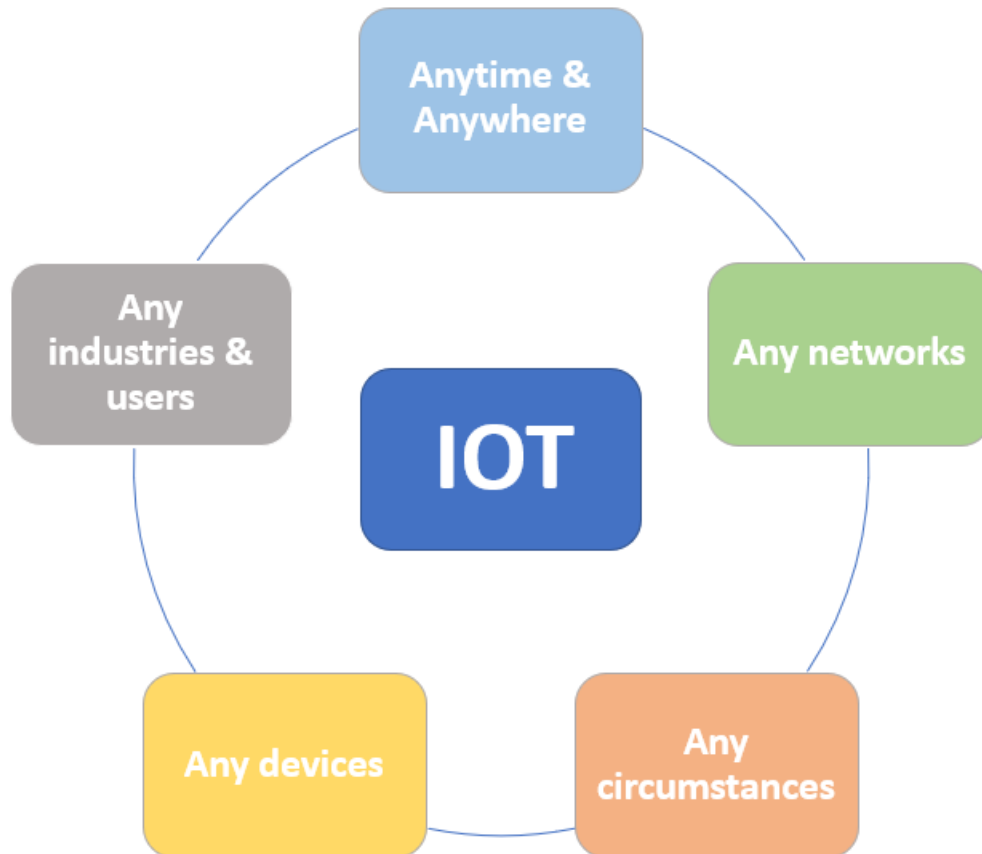


Connection between Refrigeration & Inter of Things

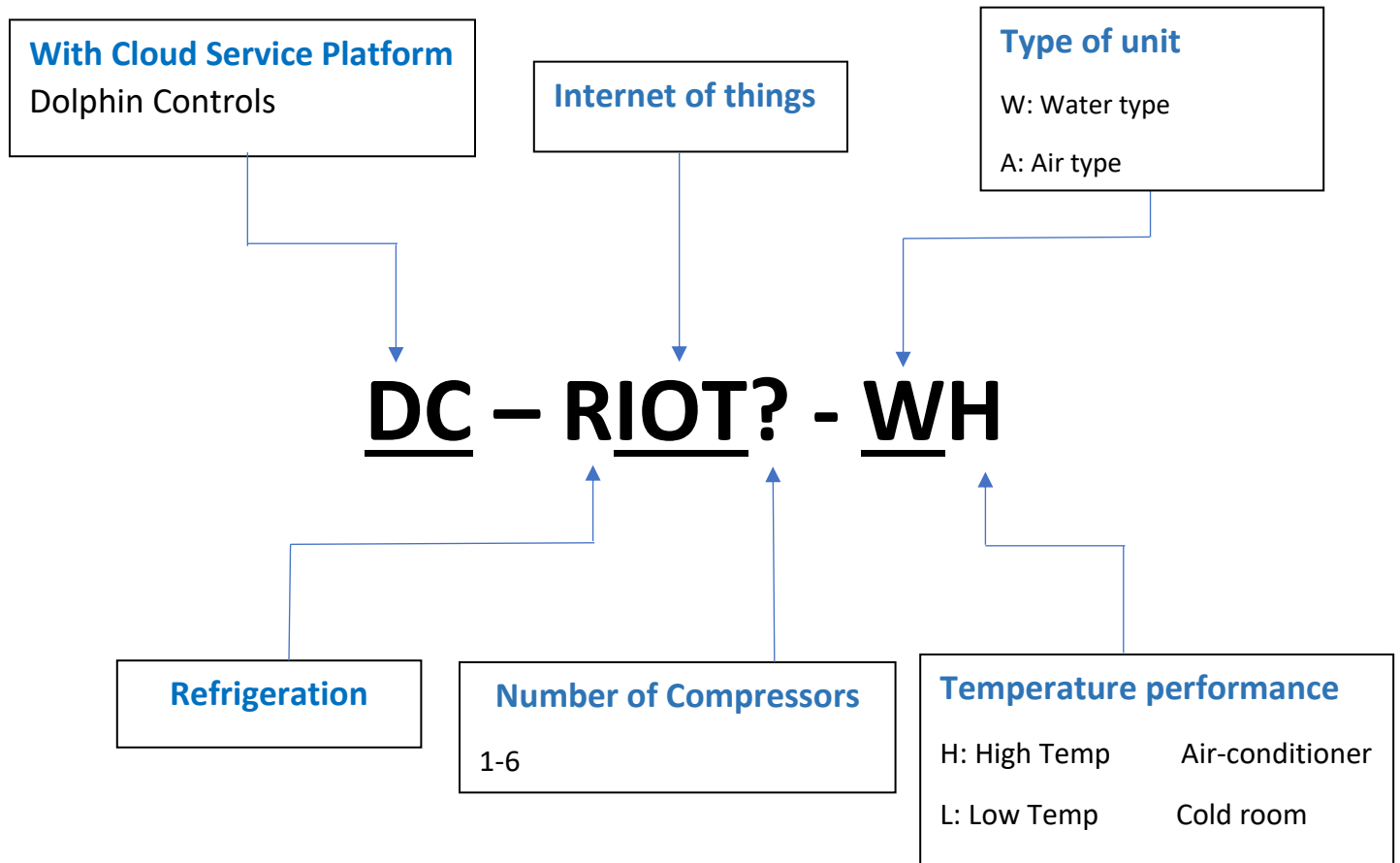


IOT Refrigeration Management system





Nomenclature:



Dolphin Controls can provide:

A: 3 Different pressure values: High pressure 、 Low pressure 、 Oil pressure

B: 12 Temperature points

Temperature point:	Amount:
Liquid pipe temp.	2
Low pressure pipe temp.	2
Refrigerant oil temp.	2
Expansion temp.	2
Water in & out temp.	2
Anti-frosting temp.	1
Water heat venting temp.	1

C: 3 electrical values: Voltage, Current, Kilowatt





9 Manageable scopes:

1. Water output temperature
2. Limitless working time
3. Automatic or manual mode switch
4. Set up protection values (High & Low pressure and Current)
5. Operational values (Low pressure 、 expansion temp.)
6. Operational status (Major and minor compressors working mode switch)
7. Manual operation management (maintenance or special circumstances only)
8. Numerical and parameter correction (professionals only)
9. Daily operation



Fulfillments for you :

A) Existed system upgrade to IOT system:

- Big data AI management to achieve the optimal model
- Non-stop self-upgrade and optimisation
- Decreased frequency of malfunction
- Achieved better energy saving

B) Integrated system & centralized management:

- Refrigeration system connected with IOT
- Executing control, malfunction detection and data analysis

C) Maintenance prognostication:

- 24/7 recording and monitoring of the operating condition
- Anticipation of maintenance





- Decreased numbers of sudden accident
- Further directed after-sales service based on the software upgrade and big data

D) Clear maintenance:

- Comparison of data to achieve clarity and reduce misjudgments
- Clear fault notification, notification and management

E) Simple management through IOT:

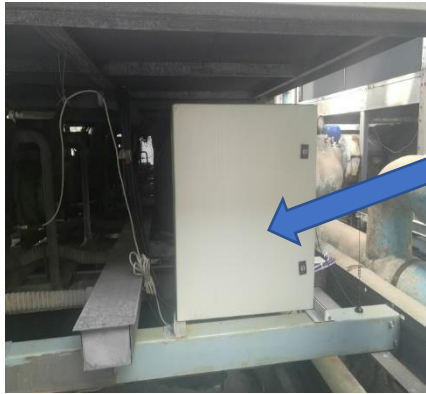
- Limitless of managing system switch, automatic operation, management of corresponding data

F) System optimization:

- 24 hours of continuous management
- Data value traceability (within 6 months)
- Remote management without time and area boundaries



Hardware installation: (example)



Installation area

Sensors inatillation area:



Low pressure



Oil pressure



High pressure

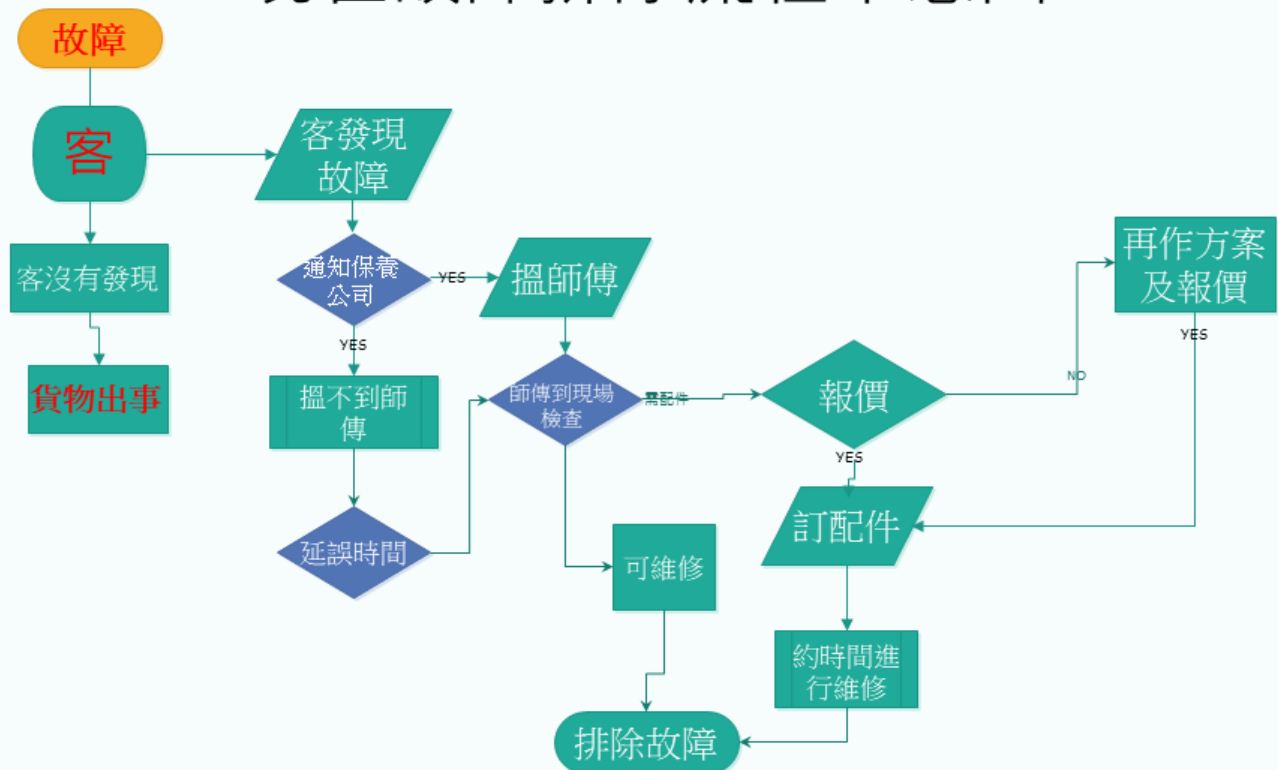


Others are all
with copper pipes



Comparison of malfunction process:

現在故障排除流程示意圖



"Dolphin Controls"故障排除流程示意圖

