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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 6809.5-2016

Replacing GB/T 6809.5-2010

**Reciprocating internal combustion engines -- Vocabulary of
components and systems -- Part 5: Cooling systems**

往复式内燃机 零部件和系统术语 第5部分：冷却系统

(English Translation)

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Table of Contents

Foreword

1 Scope

2 Normative reference documents

3 Cooling system classification

Foreword

GB/T 6809 "Reciprocating Internal Combustion Engine Parts and Systems Terms" consists of the following nine parts.

- Part 1. Fixings and external covers;
- Part 2. Main moving parts;
- Part 3. Valve components, camshaft drives and drive mechanisms;
- Part 4. pressurization and intake and exhaust piping systems;
- Part 5. Cooling systems;
- Part 6. Lubrication systems;
- Part 7. Regulating system;
- Part 8. Starting system;
- Part 9. Monitoring systems.

This part is part 5 of GB/T 6809.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 6809.5-2010. Compared with GB/T 6809.5-2010, the main contents are as follows.

- Added normative reference documents (see Chapter 2);
- Added 10 noun terms (see 4.2.7 to 4.2.28) for "fresh water coolers".

This part uses the translation method equivalent to ISO 7967-5.:2010 "Reciprocating internal combustion engine parts and systems terminology Part 5. Cold but the system. " in this part of the normative reference to the international documents have a consistent correspondence between the following documents.

- GB/T 1883 (all parts) Reciprocating internal combustion engine vocabulary [ISO 2710

(alparts), Reciprocatinginternal combustionengines-Vocabulary, IDT] this section makes the following editorial changes.

--- Added Chinese index.

This part is made by the China Machinery Industry Federation.

This part is headed by the National Standardization Technical Committee of Internal Combustion Engineers (SAC/TC177).

This part of the drafting unit. Shanghai Internal Combustion Engine Research Institute, Shanghai Automotive Group Co., Ltd. Commercial Vehicle Technology Center, Snow Dragon Group shares Co., Ltd., Shanghai Diesel Engine Co., Ltd., Changzhou Golden Phoenix Power Machinery Co., Ltd.

1 Scope

This part of GB/T 6809 specifies the reciprocating internal combustion engine cooling system terminology.

The ISO 2710 classifies the reciprocating internal combustion engines and defines the basic vocabulary and characteristics of these internal combustion engines.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

ISO 2710 (all parts) Reciprocating engine class
(Reciprocatinginternalcombustionengines-Vocabulary)

3 Cooling system classification

The cooling system type is shown in Figure 1.

- a When the cooling medium is mainly water, the term "water cooling" is also available;
- b When the cooling medium is only oil, use the term "oil cool";
- c When the cooling medium is oil and air, use the term "oil/air cooling".

Figure 1 Cooling system type