CLAIMS

[Claim 1]

An outdoor unit including a refrigerant pipe connecting valve having a refrigerant charging service port that is sealed by a hexagonal sealing nut, the hexagonal sealing nut being removed when charging refrigerant, the outdoor unit comprising:

at least one of

a structure that makes the hexagonal sealing nut different from an other hexagonal sealing nut that is provided on a refrigerant charging service port used for an other type of refrigerant, in at least one of outer diameter, shape, and appearance, and

an attention attracting portion that requires an operation by an operator when removing the hexagonal sealing nut.

[Claim 2]

The outdoor unit of claim 1,

wherein the hexagonal sealing nut that requires an operation using a dedicated tool is provided, and

wherein the hexagonal sealing nut corresponds to the refrigerant charging service port having a thread diameter of 1/2 inch or less, and has a width across flats of 18 mm or greater.

[Claim 3]

The outdoor unit of claim 1 or 2, wherein a type of refrigerant is indicated on at least one surface of a hexagonal-prism-shaped portion of the hexagonal sealing nut.

[Claim 4]

The outdoor unit of claim 1,

wherein the attention attracting portion that requires an operation by an operator when removing the hexagonal sealing nut is provided, and

wherein the attention attracting portion indicates at least one of a type of refrigerant that is used and precautions text.

[Claim 5]

The outdoor unit of claim 4, wherein the attention attracting portion includes

an indication portion indicating at least one of the type of refrigerant that is used and the precautions text, and

a projection portion that attaches the indication portion to the refrigerant pipe connecting valve.

[Claim 6]

The outdoor unit of claim 5, wherein the indication portion is held on at least one of surfaces defining a hexagonal prism shape of the hexagonal sealing nut by the projection portion.

[Claim 7]

The outdoor unit of claim 5 or 6,

wherein the projection portion is provided with a C-shaped attachment portion, and

wherein the projection portion is attached to the refrigerant pipe connecting valve, by fitting the attachment portion onto the refrigerant pipe connecting valve using an elastic force of the attachment portion.

[Claim 8]

The outdoor unit of claim 4, wherein the attention attracting portion includes

an indication portion indicating at least one of the type of refrigerant that is used and the precautions text, and

a projection portion that attaches the indication portion to the hexagonal sealing nut.

[Claim 9]

The outdoor unit of claim 8,

wherein the projection portion is provided with a ring-shaped attachment portion, and

wherein the projection portion is attached to the hexagonal sealing nut, by fitting the attachment portion onto a hexagonal-prism-shaped portion of the hexagonal sealing nut.

[Claim 10]

The outdoor unit of claim 4,

wherein a groove is formed in at least a part of a hexagonal-prism-shaped portion of the hexagonal sealing nut, and

wherein the attention attracting portion includes

an indication portion indicating at least one of the type of refrigerant that is used and the precautions text, and

a projection portion that attaches the indication portion to the groove of the hexagonal sealing nut.

[Claim 11]

The outdoor unit of claim 10,

wherein the projection portion is provided with a C-shaped attachment portion, and

wherein the projection portion is attached to the hexagonal sealing nut, by fitting the attachment portion into the groove of the hexagonal sealing nut using an elastic force of the attachment portion.

[Claim 12]

The outdoor unit of claim 4, wherein the attention attracting portion includes a cylindrical indication cover indicating at least one of the type of refrigerant that is used and the precautions text and covering an outer periphery of a hexagonal-prism-shaped portion of the hexagonal sealing nut.

[Claim 13]

The outdoor unit of claim 12, wherein the indication cover is attached to a side panel to which the refrigerant pipe connecting valve is attached, via a string-shaped coupling portion.

[Claim 14]

The outdoor unit of claim 13, wherein the coupling portion is formed integrally with the indication cover.

[Claim 15]

The outdoor unit of claim 13 or 14, wherein the coupling portion has a length of 3 to 5 times a height dimension of the indication cover.

[Claim 16]

The outdoor unit of any one of claims 13 to 15, wherein a distal end of the coupling portion which is attached to the side panel includes

a distal locking portion that abuts an inner surface of the side panel, and

a rib that is disposed at a proximal end side with respect to the distal locking portion, and adheres to an outer surface of the side panel.

[Claim 17]

The outdoor unit of any one of claims 13 to 16, wherein a drain hole is formed in at least a part of a bottom surface of the indication cover.

[Claim 18]

The outdoor unit of claim 5,

wherein the projection portion is provided with a ring-shaped attachment portion, and

wherein the projection portion is attached to the refrigerant charging service port, by attaching the attachment portion to the hexagonal sealing nut while the attachment portion is fitted on a neck of a thread portion of the refrigerant charging service port.

[Claim 19]

The outdoor unit of claim 4,

wherein the attention attracting portion includes

an indication portion indicating at least one of the type of refrigerant that is used and the precautions text, and detachably covering a hexagonal-prism-shaped portion of the hexagonal sealing nut, and

a holding portion that fixes the indication portion to the refrigerant pipe connecting valve, and

wherein the indication portion and the holding portion are flexibly coupled to each other.

[Claim 20]

The outdoor unit of claim 19, wherein the holding portion has a shape extending from one surface of the indication portion toward the refrigerant pipe connecting port of the refrigerant pipe connecting valve.

[Claim 21]

The outdoor unit of claim 4, wherein the attention attracting portion includes

an indication portion indicating at least one of the type of refrigerant that is used and the precautions text, and detachably covering a hexagonal-prism-shaped portion of the hexagonal sealing nut,

a ring-shaped attachment portion that is attached to a base portion of the refrigerant pipe connecting port of the refrigerant pipe connecting valve, and

an extension portion that is formed in a shape of a string, and connects the indication portion and the attachment portion to each other.

[Claim 22]

An air-conditioning apparatus comprising:

the outdoor unit of any one of claims 1 to 21; and

an indoor unit that is connected to the outdoor unit.

CLAIMS

[Claim 1]

An outdoor unit including a refrigerant pipe connecting valve having a refrigerant charging service port that is sealed by a hexagonal sealing nut, the hexagonal sealing nut being removed when charging refrigerant, the outdoor unit comprising:

an indication portion indicating at least one of a type of refrigerant that is used and a precautions text; and

a projection portion that attaches the indication portion to one of the refrigerant pipe connecting valve and the hexagonal sealing nut.

[Claim 2]

The outdoor unit of claim 1, wherein the indication portion is held on at least one of surfaces defining a hexagonal prism shape of the hexagonal sealing nut by the projection portion.

[Claim 3]

The outdoor unit of claim 1,

wherein the projection portion is provided with a C-shaped attachment portion, and

wherein the projection portion is attached to the refrigerant pipe connecting valve, by fitting the attachment portion onto the refrigerant pipe connecting valve using an elastic force of the attachment portion.

[Claim 4]

The outdoor unit of claim 1,

wherein the projection portion is provided with a ring-shaped attachment portion, and

wherein the projection portion is attached to the refrigerant pipe connecting valve, by attaching the attachment portion to the hexagonal sealing nut while the

attachment portion is fitted on a neck of a thread portion of the refrigerant charging service port.

[Claim 5]

The outdoor unit of claim 1,

wherein the projection portion is provided with a ring-shaped attachment portion, and

wherein the projection portion is attached to the hexagonal sealing nut, by fitting the attachment portion onto a hexagonal-prism-shaped portion of the hexagonal sealing nut.

[Claim 6]

The outdoor unit of claim 1,

wherein the projection portion is provided with a C-shaped attachment portion,

wherein a groove is formed in at least a part of a hexagonal-prism-shaped portion of the hexagonal sealing nut, and

wherein the projection portion is attached to the hexagonal sealing nut, by fitting the attachment portion into the groove of the hexagonal sealing nut using an elastic force of the attachment portion.

[Claim 7]

An outdoor unit including a refrigerant pipe connecting valve having a refrigerant charging service port that is sealed by a hexagonal sealing nut, the hexagonal sealing nut being removed when charging refrigerant, the outdoor unit comprising:

a cylindrical indication cover indicating at least one of a type of refrigerant that is used and a precautions text and covering an outer periphery of a hexagonal-prism-shaped portion of the hexagonal sealing nut.

[Claim 8]

The outdoor unit of claim 7, wherein the indication cover is attached to a side panel defining a side surface of a casing of the outdoor unit via a coupling portion.

[Claim 9]

The outdoor unit of claim 8, wherein the coupling portion is formed integrally with the indication cover.

[Claim 10]

The outdoor unit of claim 8 or 9, wherein a distal end of the coupling portion which is attached to the side panel includes

a distal locking portion that abuts an inner surface of the side panel, and

a rib that is disposed at a proximal end side with respect to the distal locking portion, and adheres to an outer surface of the side panel.

[Claim 11]

The outdoor unit of any one of claims 7 to 10, wherein a drain hole is formed in at least a part of a bottom surface of the indication cover.

[Claim 12]

An outdoor unit including a refrigerant pipe connecting valve having a refrigerant charging service port that is sealed by a hexagonal sealing nut, the hexagonal sealing nut being removed when charging refrigerant, the outdoor unit comprising:

an indication portion indicating at least one of a type of refrigerant that is used and a precautions text, and detachably covering a hexagonal-prism-shaped portion of the hexagonal sealing nut,

an attachment portion that is attached to a base portion of the refrigerant pipe connecting port of the refrigerant pipe connecting valve, and

an extension portion that connects the indication portion and the attachment portion to each other.

[Claim 13]

The outdoor unit of claim 12,

wherein the extension portion has a shape extending from one surface of the indication portion toward the refrigerant pipe connecting port of the refrigerant pipe connecting valve, and

wherein the indication portion and the extension portion are flexibly coupled.

[Claim 14]

The outdoor unit of claim 12, wherein the extension portion is formed in a shape of a string.

[Claim 15]

The outdoor unit of any one of claims 1 to 14,

wherein the hexagonal sealing nut that requires an operation using a dedicated tool is provided, and

wherein the hexagonal sealing nut corresponds to the refrigerant charging service port having a thread diameter of 1/2 inch or less, and has a width across flats of 18 mm or greater.

[Claim 16]

The outdoor unit of any one of claims 1 to 15, wherein the type of refrigerant is indicated on at least one surface of a hexagonal-prism-shaped portion of the hexagonal sealing nut.

[Claim 17]

An air-conditioning apparatus comprising:

the outdoor unit of any one of claims 1 to 16; and

an indoor unit that is connected to the outdoor unit.